gordon engineering _{INC.}

P.O.Box 3052, Valley Federal Plaza, Grand Junction, Co. 81501 Office (303)245-1958 Residence (303)243-9599

November 9, 1979

Mr. Cleon B. Feight, Director Division of Oil, Gas, and Mining 1588 West North Temple Salt Lake City, Utah 84116

Re: Cominco American, Inc.

Beaver River Unit Federal #2

Millard County, Utah

Dear Mr. Feight:

We are enclosing an Application for Permit to Drill the above referenced well. You will note that we are planning to drill a water supply well and the appropriate forms have been filed with the State Division of Water Rights. This well is to be the initial unit well for the Beaver River Unit which has not yet been approved but should be effective prior to the completion of the well.

Also, the well does not conform to the state spacing regulations but is in tolerance with the Federal standards. The well was located in this position to minimize surface disturbance and we request that the APD be approved.

Please advise if you have any questions or need additional information.

Very truly yours,

John I. Gordon

JIG:bb Enclosures

cc: Cominco American, Inc. 203 West 8th, #510 Amarillo, Texas 79101 Form OGC-1a

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Utah 19442

5 . Lessa Designation and Serial No.

b. Type of Well Oil		DIVISION OF OIL	, GAS, AND MII	VING			5. Lease Designation and Serial No.
DRIL	APPLICATION	FOR PERMIT	TO DRILL, D	EEPEN,	OR PLU	G BACK	6. If Indian, Allottee or Tribe Name
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Title...

for Federal or State office use)

Approved by......Conditions of approval, if any:

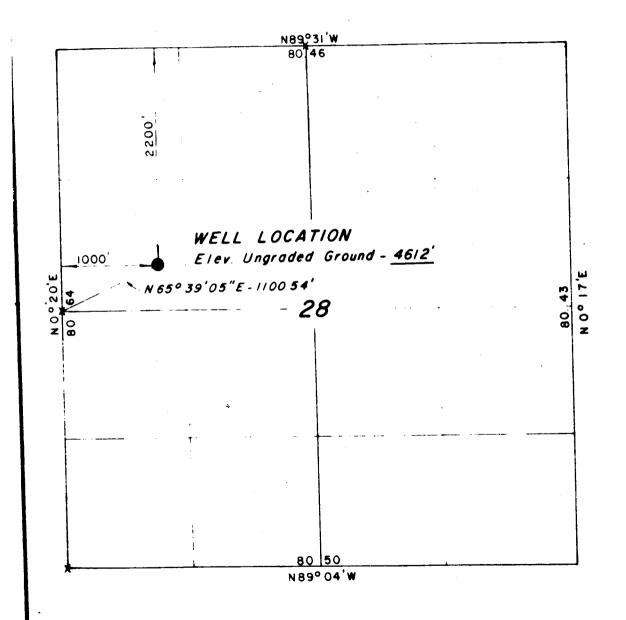
Title Consulting Engineer

Approval Date

Date 11/9/79

COMINCO AMERICAN INC.

Well location located as shown in the SWI/4 NWI/4 Section 28, T20S, R 8 W, S L B & M. Millard County, Utah.



Unitae Engineering & Land Subveying P. BOX /4 - HO EAST VERNAL, UTAH 84378

1" = 1000"

1/9/79

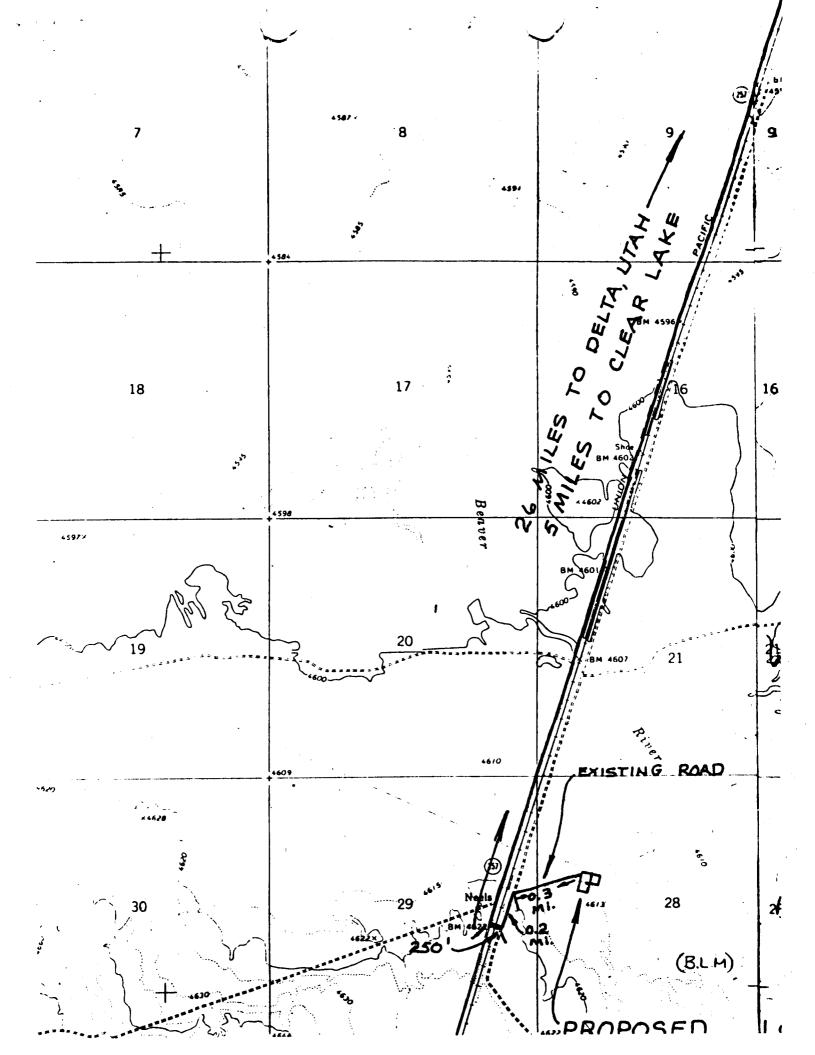
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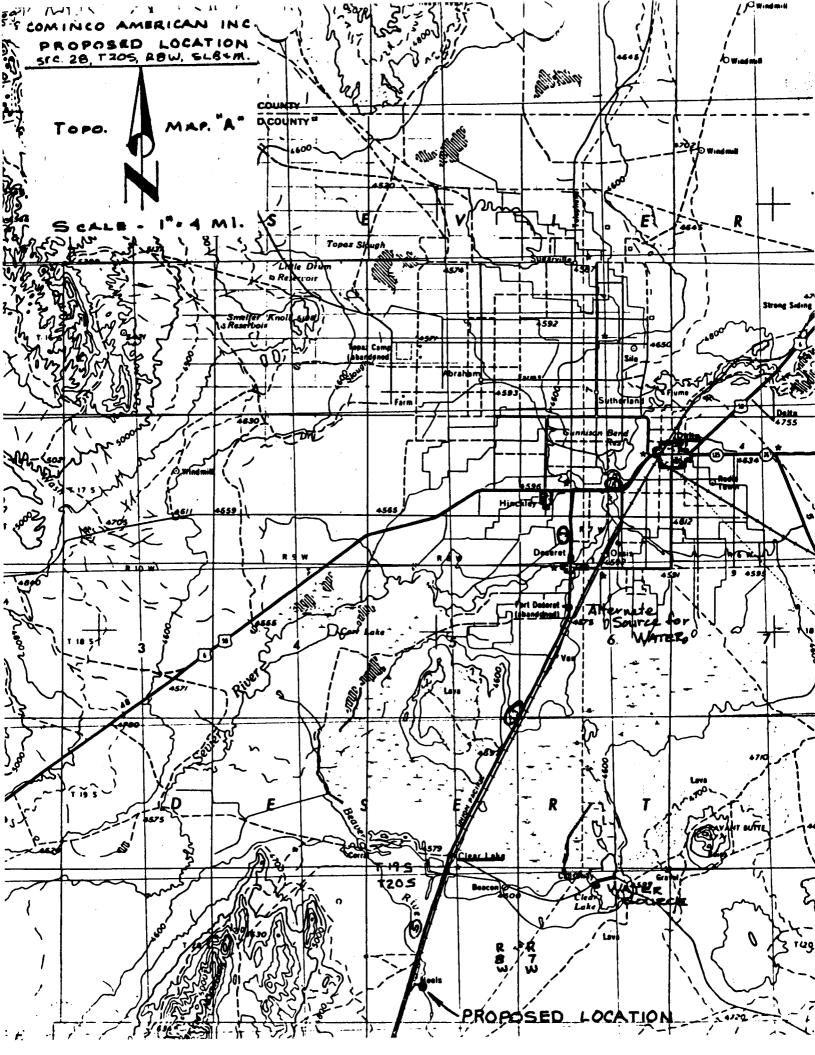
GLO Plat

Cloudy / Cool

COMINCO AMERICAN

X = Section Corners Located





Cominco American Inc. Federal Number 2 SW/NW Sec 28, T20S, R8W Millard County, Utah Utah Lease Number 19442

GEOLOGIC NAME OF SURFACE FORMATION

Wasatch Formation, Lower Eocene

2. ESTIMATED FORMATION TOPS

Mesa Verde Series	-	2900	Curtis	-	8650
Mancos Series	_	4100	Entrada	-	8950
Dakota	_	4800	Carmel	-	9300
Morrison	-	7750	Twin Creek	-	10890
Summerville	-	8125	Nugget		11250

3. ESTIMATED DEPTHS OF WATER, OIL GAS OR MINERALS

Oil: Nugget 11250 and/or Twin Creek 10890

Gas: Nugget and/or Twin Creek

Water: No fresh water is anticipated below 300'

Mineral Deposits: None Known

4. PROPOSED CASING PROGRAM

Size	Grade	Wt/Ft 48	Condition/Threads	<u>Depth Set</u>
13 3/8"	H-40	48	New-STC	400
10 3/4"	K-55	40.5	New-STC	2500'
5 1/2"	N-80	17	New-Buttress	0-800'
, -	N-80	17	New-LTC	800-11000'
	S-95	17	New-LTC	11000-11500'

Note: Design factors calculated on 9.6 #/gal mud. Design would obviously change with the change in mud density.

DESIGN FACTORS
Tension 1.8
Burst 1.0
Collapse 1.125

Cominco American Inc. Federal Number 2 SW/NW Sec 28, T2OS, R8W Millard County, Utah Utah Lease Number 19442

5. PRESSURE CONTROL EQUIPMENT

- A. Refer To Diagram A.
- B. Minimum pressure ratings on any and all B.O.P. or related control equipment will be 5000 #/in.
- C. B.O.P. stack will be pressure tested to 5000 #/in. at 2500', prior to drilling out. The stack will then be checked on each trip to insure workability, and pressure tested to 5000#/in. prior to drilling the Twin Creek formation.

6. DRILLING FLUIDS

Water and water base mud will be used from surface to total depth. If, however, lost circulation which cannot be controlled is encountered, air or air-mist will be used until protective casing is set.

7. AUXILIARY EQUIPMENT

- 1. Upper and lower kelly cocks.
- Floats will be used when needed.
- 3. Automatic monitoring of mud pits.
- 4. One full opening stabbing valve on floor at all times.
- 5. Manned mud logging unit below 4000 ft.
- 6. Remote control choke.
- 7. Hydrogen sulfide detection system along with a sufficient number of escape packs to allow for evacuation if any hydrogen sulfide gas is encountered.

Note: No hydrogen sulfide gas is anticipated.
However, due to the extreme wildcat nature
of this well, this additional safety measure
is being initiated.

Cominco American Inc. Federal Number 2 SW/NW Sec 28, T20S, R8W Millard County, Utah Utah Lease Number 19442

8. EVALUATION PROCEDURES

Drill Stem Tests: As determined by on site geologist.

2. Coring: As determined by on site geologist.

3. Logging: IES, Gamma Ray Sonic, Dip Meter.

9. ABNORMAL DRILLING CONDITIONS

1. Abnormal Pressure -- None Anticipated.

2. Abnormal Temperatures -- None Anticipated.

3. Hydrogen Sulfide --None Anticipated.

10. ANTICIPATED STARTING DATE

We anticipate spudding this well on November 22, 1979. A total of 240 days is anticipated to drill and complete this well. Construction of the drill pad will begin as soon as governmental approval is obtained.

COMINCO AMERICAN INCORPORATED

13 Point Surface Use Plan

for

Well Location

Located In

Section 28, T2OS, R8W, S.L.B. & M.

Millard County, Utah

1. EXISTING ROADS

See attached Topographic Map "A".

To reach Cominco American Incorporated well location, located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 28, T20S, R8W, S.L.B. & M. from Delta, Utah

Proceed Southwesterly out of Delta, Utah on U.S.Highway 6-50, 5 miles to its junction with Utah State Highway 257; proceed in a Southerly direction along this road 16 miles to Clear Lake, Utah; proceed on Southwesterly along this road 5 miles to Neels, Utah and the junction of this road and a road to the East; this road crosses the Rail road and then runs to the Northeast and Southwest parallel to the railroad tracks proceed Northeasterly along this road 0.2 miles to its junction with a road to the East; proceed Easterly along this road 0.3 miles to the proposed location site.

At the present time there is no major construction anticipated along any portion of the above described road.

The road will be maintained and kept at the necessary standards required for an orderly flow of traffic during the drilling, completion, and production activities of this location.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

There will be no planned access road. The existing road goes to the location site.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no known water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, producing wells, shut in wells, injection wells, monitoring or observation wells for other resources within a 2 mile radius of this proposed well.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no Cominco American Incorporated tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a one mile radius of this location.

This is an exploratory well, in the event that production is established the location site will be used for production facilities no additional surface will be needed. (See Location Layout for production scheme.)

Upon completion of production, if any, the area used for production facilities will be rehabilitated to meet the requirements of Items #7 #10 and these requirements and standards will be adhered to.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water to be used in the drilling of this well will be hauled by truck from Clear Lake Bird Refuge a distance of 11 road miles to the Northeast.

If this source becomes unavailable water may be obtained for Fort Deseret. Water will be hauled over existing roads approximately 16.5 miles if acquired for the later source.

COMINCO AMERICAN INCORPORATED
Section 28, T20S, R8W, B. & M.

5. LOCATION OF AND TYPE OF WATER SUPPLY

All regulations and guidelines will be followed, and no deviations will be made unless all concerned agencies are notified.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during the construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See location layout sheet.

A reserve and burn pit will be constructed.

The reserve pit will be approximately 8' deep and at least one-half of this depth shall be below the surface of the existing ground.

One-half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one-half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed at such time as deemed necessary to protect the waterfowl, wildlife, and domestic animals.

At the onset of drilling, this reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclammation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

The burn pits will be constructed and fenced on all four sides with a small wire to prevent any flammable materials from escaping and creating a fire hazard.

All flammable materials will be burned and then buried upon completion of this well.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

COMINCO AMERICAN INCORP TED Section 28, T20S, R8W, B. & M.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that all materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See Location Layout Sheet, Item #9). When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activites shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

As mentioned in Item #7, the reserve pit will be completely fenced and wire and overhead flagging installed if there is oil in the pits, and then allowed to dry completely before covering.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the mositure content of the soil is adequate for germination. The Lessee further convenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (see Topographic Map "A")

The area is a large Valley formed by the Canyon Mountains and Pavont Mountains to the East and the House Mountains to the West, and is part of what is known as the Sevier Desert. The area is interlaced with many washes and non-perennial drainages.

The soils in this semi-arid area are of the Wasatch formation (lower Eocene) consist of light brown sand clay (OL) to sandy soil (SM-ML with poorly graded gravels.

Topsoils in the area range from Sandy clay (SM-CL) type soil to a clayey (OL) type soil

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rain fall in the area is only 8".

11. OTHER INFORMATION - continued

Beaver River a non-perennial stream drains to the North into the Sevier River a non-perennial stream which drains to the West into the Dry Sevier Lake Bed.

Due to the low precipitation average, climate conditions, and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations. It consists of sagebrush, greasewood, and grasses, with sparce amounts of Cacti.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purposes of grazing sheep and cattle.

The birds of the area are raptors, finches, ground sparrow, magpies, crows, and jay

The Topography of the Immediate Area- (See Topographic Map "B")

This well location sits on a flat area of the Sevier Desert approximately 500' West of the non-perennial Beaver River, this River drains to the Northwest into the Sevier River, which is also non-perennial River.

The terrain in the immediate vicinity of the location slopes through the location site at approximately a 0.1% grade.

The vegetation in the immediate area surrounding the location site is predominantly greasewood, sagebrush, and grasses.

All surface disturbance for this well is under B.L.M. Jurisdiction.

There are no occupied dwelling or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural, sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

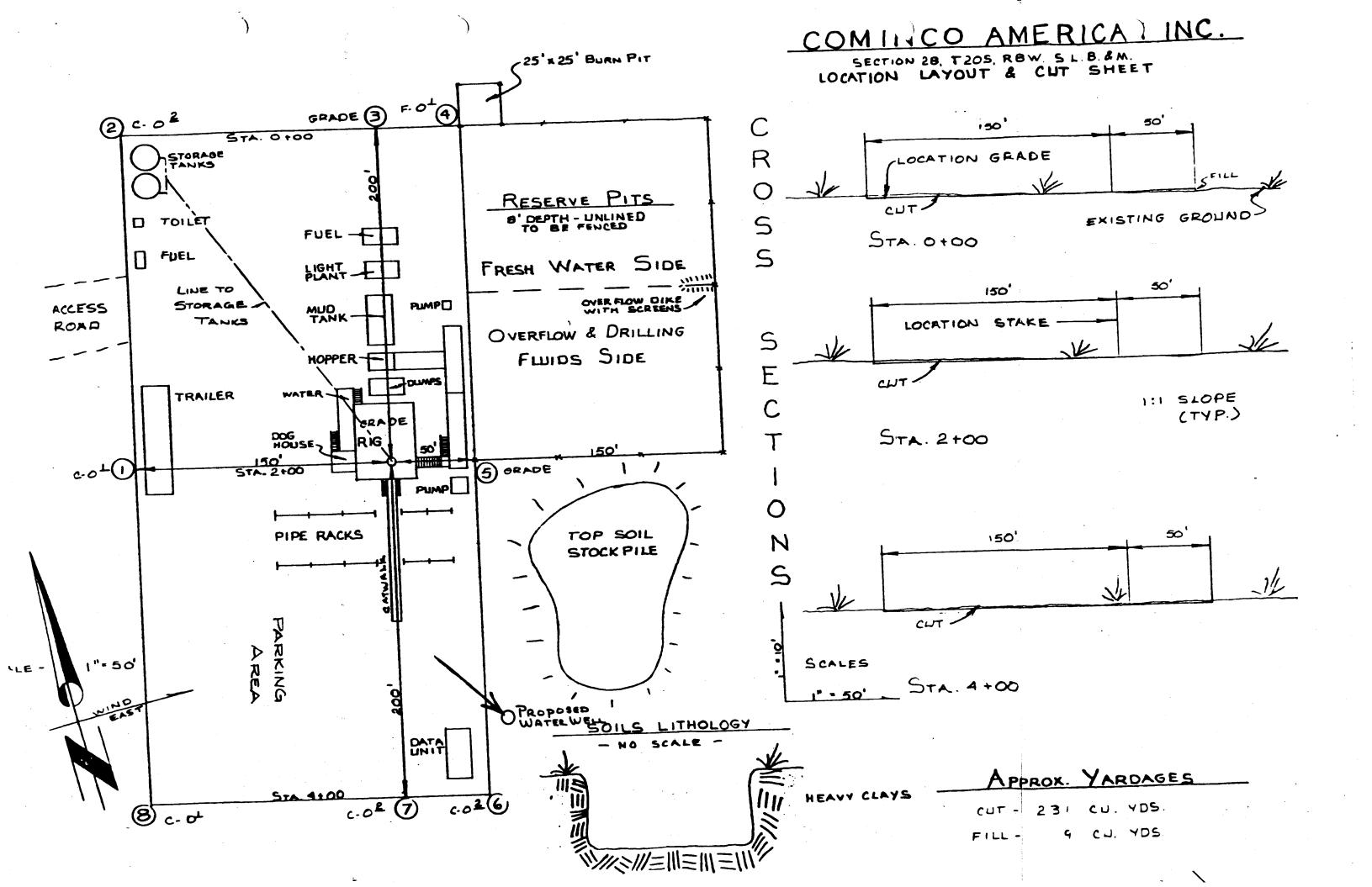
12. LESSEE'S OR OPERATOR'S REPRESETATIVE

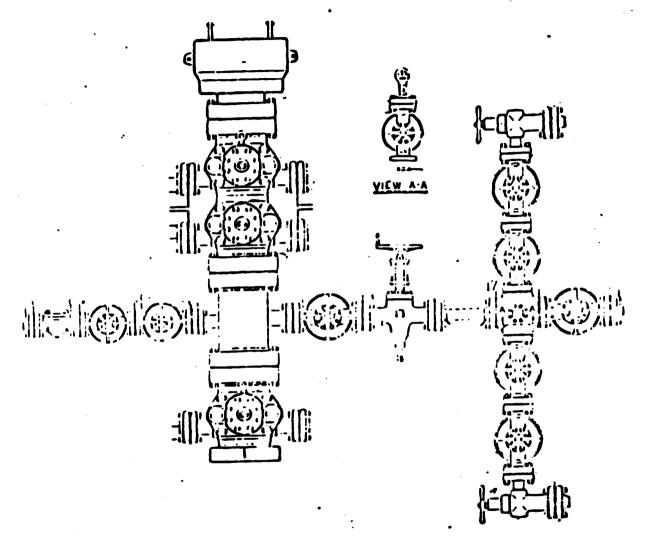
George Holden 100 Merrygold Way Casper, Wyoming

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operations proposed herein will be performed by Conimco American Incorporated and its contractors and subcontractors if conformity with this plan and terms and conditions with this plan and terms and conditions under which it is approved.

October 25, 1979





Schematic of B.O.P. to be used on:

Cominco American Inc. Federal Number 2 SW/NW Sec. 28, T20S, R8W Millard County, Utah Form 9-331 (May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR SUBMIT IN TRIPLICATE® (Other Instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.

tj-1944

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Cominco America	an. Inc.	1	Federal	
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See also space 17 below.)			Wildcat	
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(Other) Supplem	ental information	<u>'</u>		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) •

A designation of operator is attached

Please amend the 13 point surface use plan as follows:

Item #5 - After investigation of the possibilities of drilling a water well, we have decided to drill a water well. A revised location layout plat is attached which illustrates the proposed water well. Sufficient water should be encountered at a depth of 180' - 250'.

Item #12- Please change to Gordon Engineering, Inc.

P.O. Box 3525

Grand Junction, Colorado 81502 Attention: Mr. John I. Gordon

Phone (303) 245-1958 or (303) 243-9599 (residence)

This well is to be the initial unit well in the Beaver River Unit. The unit at the completion this time is not approved; however, it should be effective grion to of the well.

		S 197
18. I hereby ceatify that the foregoing is true and correct	TITLE _	Consulting Engineer 11-9-79
(This space for Federal or State office use)	TITLE _	DATE
APPROVED BY	111119 _	

*See Instructions on Reverse Side

** FILE NOTATIONS **

DATE: 100 14,1979	
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Well No: Beaver Peries Us	
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/	Entered on N.I.D.:
Card Indexed:	Completion Sheet:///
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CHECKED BY:	,
Geological Engineer:	
Petroleum Engineer:	
Director: OK Johnson	stin Z
APPROVAL LETTER:	
Bond Required:	Survey Plat Required:
Order No	0.K. Rule C-3
Rule C-3(c), Topographic Excep within a 660' rad	tion/company owns or controls acreage ius of proposed site
within a 660. rad 15 temul Lease Designation [Id-] m	t Unit Plotted on Map / /
Approval Lette	r Written / V
	lilm

TH PI

November 16, 1979

Cominco American, Inc. 203 West 8th Street, Suite 510 Amarillo, Texas 79101

> Re: Well No. Beaver River Unit #2 Sec. 28, T. 20S, R. 8W., Millard County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, this Division requires that a letter be sent to this office stating that Cominco American, Inc., owns or controls the acreage within a 660' radius of the proposed well site.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER Geological Engineer Office: 533-5771 Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-027-30017.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder Geological Engineer

16.tm

cc: USGS

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UNITED STATES DEPARTMENT OF THE INTERIOR

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CONDITIONS OF APTHOVAL ATTACHED

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TO OPERATOR'S COPY

Proposed Action.

On October 29, 1979, Comico American Incorporated filed an Application for Permit to Drill the No. 2 exploratory well, an 11,500 foot oil test of the Twin Creek and Nugget Formations, located at an elevation of 4612 ft. in the SW 1/4 NW 1/4 Section 28, T20S, R8W on Federal mineral lands and public surface, lease No.U-19442. There was no objection to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the BLM the controlling surface agency. Rehabilitation plans would be decided upon as well neared completion, the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 200 feet wide by 400 feet long and reserve a pit 150 feet. by 200 feet. No new access road would be constructed, however, an existing trail would be maintained and upgraded as necessary to its present 16 feet width by 0.5 miles long from Utah State Highway 257.

Access to the location would require passage through two gates immediately adjacent to the highway and nearby railroad tracks. Cattle guards may be installed by the operator if deemed necessary to allow for an orderly flow of traffic during drilling, completion and potential production activities. A safety hazard could exist due to the proximity of the railroad line to the highway and gates.

The operator proposed to construct production facilities on disturbed area of the proposed drill pad. The anticipated starting date is upon approval and duration of drilling and completion activities would be about 240 days.

Location and Natural Setting:

The proposed drillsite is approximately 18 miles southwest of Deseret, Utah, the nearest town. A poor road runs to the location. This well is a wildcat.

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Topography:

The location is situated on a flat area of the Sevier Desert, about 500 feet west of the non-perennial Beaver River. The Sevier Desert is bordered on the east by the Canyon and Pavont Mountains and on the west by the House Mountains.

Geology:

The surface geology is the Mesaverde Formation.

The soil is sandy clay.

Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

The Mineral Evaluation Report, submitted by the District Geologist, Salt Lake City, states that potential geothermal resources may be encountered at about 1800 feet in fractured volcanics. The operator should monitor flowline return temperatures and report to the District Engineer in order to provide information concerning potential geothermal resources.

The possibility for geothermal steam also presents a geologic chazard to drilling, and the operator should provide adequate well control for safety of operations. There are no other known geologic hazards near the the drillsite, however, due to the extreme wildcat nature of the well, hydrogen sulfide is a possibility, especially when considering the geothermal potential. The operator's drilling program reflects this fact as it includes a hydrogen sulfide detection system and escapes packs to allow for evacuation.

If hydrogen sulfide is encountered during drilling, operations should cease, and an approved Hydogen Sulfide Contingency Plan be implemented to provide safety for railroad crews and travelers on Utah State Highway 257.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist and is possible in the sandstone units of the Mesa Verde. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formations to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occuring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation. If any encountered loss of circulation cannot be controlled, air or air mist would be used until protective casings are set.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey Engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay soil. The soil is somewhat subject to runoff from rainfall and has a medium runoff potential and sediment production would be medium. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Because of the clay content of the soils (Mesa Verde) access could become a problem during wet conditions. The BLM has requested that under such conditions, the road be graded to eliminate excess disturbances caused by travel around spots. The operator proposed to gravel the road to reduce such problems.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access road per the recommendations of the Bureau of Land Management.

Approximately 2.5 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air.

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operaations and impact from vehicluar traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated, though they cannot be ruled out when considering the exploratory nature of the well.

Precipitation:

Annual rain fall should range from about 6" to 9" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 7".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The location is within the Sevier River drainage basin, a closed system. The proposed location is staked about 500 feet west of the Beaver River, a non-perennial tributary of the Sevier River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks and spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology.

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of producted water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined unless unstable conditions are encountered during construction. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

At the onsite inspection, the operator stated that a water well would be drilled at the location, altering the proposal. Appropriate state permits have been applied for. If useable water is not available from the well, water would be obtained as stated in the APD.

Vegetation:

Vegetation at the location is sparse, with approximately 2-5% ground cover, consisting predominately of shadscale and greasewood.

Plants in the area are of the salt-desert-shrub types.

Proposed action would remove about 2.5 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominately of pronghorn antelope, coyotes, rabbits, foxes, and varities of small ground squirrels and other types of rodents and various types or reptiles. The area is used by man for the primary purpose of grazing domestic livestock. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area, although the American Bald Eagle and Peregrine Falcon are migratory through the area and are nearby residents.

The proposed drilling should have little, or no effect on these species.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance has been performed. Appropriate clearances have been obtained from the surface managing agency. If, however a historic artifact, an archeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and and the method of mitigation the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operations may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is visible from a major road. After drilling operations, completion equipment would be visible to passersby of the area but should not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Millard County.

But should this well discover a significant new hydrocarbon source, local, state and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantialy greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding,

etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Warm Springs Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserve pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

1). Not approving the proposed permit -- the oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2). Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetation, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment,

normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Mitigative Measures and Stipulations:

Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

- 1. Adequate precautions should be undertaken by all vehicles crossing the nearby railroad tracks. Installation of cattle guards at the two nearby gates would reduce potential safety hazards.
- 2. During wet conditions, traffic should remain on the approved access road and should not create additional disturbances by turning out around bad spots. Gravelling the road would eliminate muddy roads during periods of wet conditions.
- 3. Since the potential for encountering geothermal resources exists, flowline return temperatures should be monitored and reported to the District Engineer.
- 4. Due to the potential for encountering geothermal steam, proper well control should be practiced during drilling to insure safety of operations.
- 5. Hydrogen sulfide mud scavangers should be available at the drill site since the potential for encountering hydrogen sulfide cannot be ruled out.
- 6. If any hydrogen sulfide is encountered during drilling, operations would cease until an approved Hydrogen Sulfide Contingency Plan as outlined in NTL-10, is incorporated into the drilling program to protect railroad crews and travelers on Utah State Highway 257.
- 7. Any wastes generated at the site would be covered with at least four feet of fill material.
- 8. The reserve pits would be unlined unless unstable soil conditions are encountered during construction. It is the operator's responsibility to insure a tight stable pit.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 2.5 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due

to exhaust emmissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associatd with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable committment of resources would be made. Erosion from the site would eventually be carried as sediment in the Sevier River. The potential for pollution to the Beaver River would exist through leaks and spills.

Determination:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, 102 (2) (C).

Date

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District Engineer
U. S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

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United States Department of the Interior Geological Survey 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

Usual Environmental Analysis

Lease No.: U-19442

Operator Cominco American. Inc.

Well No.: 2

Location 2200' FNL & 1000' FWL

Sec.: 28

T.: 20S R.: 8W

County: Millard

State Utah

Field. Wildcat

Status. Surface Ownership: Public

Minerals. Federal

Joint Field Inspection Date: November 20, 1979

Participants and Organizations:

George Diwachak

USGS - Salt Lake City, Utah

Jerry Muhlestein

BLM - Fillmore, Utah

Kenneth Hayes

Gordon Engineering for Comino American

Related Environmental Analyses and References:

(1) Unit Resource Analysis, Warm Springs Planning Unit, BLM, Fillmore, Utah

10 m

Analysis Prepared by: George Diwachak Environmental Scientist Salt Lake City, Utah

Date: November 23, 1979

Noted - G. Diwachak

DESIGNATION OF OPERATOR

The modersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:

Salt Lake City, Utah

SERIAL NO .:

U19442

and here's designates

NAME:

Cominco-American, Incorporated

ADDRESS:

W. 818 Riverside Avenue, P.O. Box 3087,

Spokane, Washington

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 20 South, Range 8 West, SLM

Millard County, Utah

is inderstood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator aces not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator

Yeosee)

Colorado 80224

M. A. Rogers, Vice President Exploration

PanCanadian Petroleum Company

P.O. Box 2850, Calgary, Alberta T2P 2S5

(Signature of lessee)

P. O. Box 1350

77001 Houston, Texas

January 24, 1979

(Address)

Total Petroleum, I (Signature of lessee)

EXPLORATION / PRODUCTION

2950 One Allen Center, Houston, Texas

(Address)

DIVISION OF UIL, GAS AND MINING

SPUDDING INFORMATION

VAME OF COMPANY: Cominco Ameri VELL NAME: Beaver River Unit #2				
SECTION 28 SW NW TOWNSHIP 20S	RANGE	8W	COUNTY_	Millard
DRILLING CONTRACTOR				
RIG #				
SPUDDED: DATE 12/31/79				
TIME 6:30 p.m.				
How_rotary				
DRILLING WILL COMMENCE ASAP				
REPORTED BY				
TELEPHONE #				
			7. M	'
DATE January 3, 1980	SIGNE]) <i>[M.</i>	J. M	indu
cc: USGS				

March 7, 1980

Cominco American Inc. 203 West 8th St. Suite 510 Amarillo, Texas 79101

> Re: Well No.Beaver River Unit #2 Sec. 28, T. 20S, R. 8W. Millard County, Utah January-February 1980

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

JANICE TABISH CLERK TYPIST

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OF UTAH DEPARTME OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

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DIVISION	5. LEASE DESIGNATION AND SERIAL NO. U-19442		
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aignad Contr Sielie	th title_	Field Supervisor	3-21-80
(This space for Federal or State office	use)		
APPROVED BY IF ANY	TITLE		DATE

Form UGC-1b SODMIT IN THILTICATE (Other instructions on STATE OF UTAH reverse side) NATURAL RESOURCES DEPARTI 5. LEASE DESIGNATION AND SESIAL NO. DIVISIT OF JIL, GAS, AND MINING U-19442 6. IF INDIAN, ALLOTTER OR TRIBE HAMS SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) 7. UNIT AGRESMENT NAME OIL X Reaver River Unit OTHER NAME OF OPERATOR COMINCO AMERICAN INCORPORATED <u>Federal</u> ADDRESS OF OPERATOR Suite 510 Petroleum Building, Amarillo, Texas 79101
LOCATION OF WELL (Report location clearly and in accordance with any fitate requirements.*
At surface 10. PIBLD AND POOL, OR WILDCAT Wildcat 11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA 2200' FNL and 1000' FWL SW1/4 NW 1/4 Sec. 28, T20S, R8W 12. COUNTY OR PARISH 18. STATE 14. PRRMIT NO. 16. BLEVATIONS (Show whether DF, RT, GR, etc.) Utah Millard 4612 GR Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SUBSHOUSHT SEPORT OF ! NOTICE OF INTENTION TO: REPAIRING WELL WATER SHUT-OFF PULL OR ALTER CASING TRAT WATER SHUT-OFF ALTERING CASING MULTIPLE COMPLETE PRACTURE TREATMENT ABANGON MEMTO SHOUTING OR ACIDIZING ARANDON* AMOUT OR ACIDISE REPAIR WELL CHANGE PLANS (Norz: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPORED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well, is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and seems partinent to this work,) Week March 16-23 RECEIVED Drilling sandstone to 8400' Drilling dolomite @ 8550' APR 7 1980 ☐ BOB □ WK ☐ AEP [] RJZ ☐ RFE ☐ ERS \Box !! Confidential ☐ FILE [] CJM.

18. I hereby certify that the foregoing is true and correct

SIGNED TITLE Manager, 011 & Gas

(This space for Federal or State office, use)

APPROVED BY CONDITIONS OF ERROVAL, IF ANT:

FOR E. W. GUYNN
DISTRICT ENGINEER

DATE APR 01 1500

NO ADDITIONAL SURFACE DISTURBANCE FOR THIS ACTIVITY

*See Instructions on Reverse Side

April 8, 1980

Cominco American Inc. 203 West 8th St. Suite 510 Amarillo, Texas 79101

Re: Well No. Beaver River Unit #2

Sec. 28, T. 20S, R. 8W. Millard County, Utah

Months due: January-March 1980

SECOND NOTICE

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notice and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

JANÍCE TABISH CLERK-TYPIST

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er instructions on re-	Budget Bureau No. 42-B14
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(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pertinent to this work.)*

Week March 29 - April 4

Drilling dolomite to 9944'

Confidential

8. I hereby certify that the foregoing is true mid obrrect				
SIGNED Some Cario, that	тітьк <u>Mana</u>	ger, Oil & Gas	DATE 4-8-80	
(This space for Federal or State office use) APPROVED BY CONDITIONS OF THE TROVAL, IF ANY:	FOR	E. W. GUYNN DISTRICT ENGINEER	DATE MAY 0 7 1980	,

APPROVED FOR UNIT PURPOSES ONLY

form.	9-331
(May	1963)

ATED STATES

Form approved.

ny 1963)	DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	(Other Instructions on reverse side)	5. Liganii di U-194			
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Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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(Other)	_			(Norn: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSER OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and somes pertinent to this work.) *

Week April 5 - 11

Logging Present depth 11,028

Confidential

18. I hereby certify that the foregoing is true and correct 4-11-80 (This space for Federal or State office DISTRICT ENGINEER

APPROVED FOR UNIT PURPOSES ONLY

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DEPARTMENT OF ATUI		5. LEASE DESIGNATION AND SECIAL NO.
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(Uther) Progress Report	(Nora: Report	results of multiple completion on Well tecompletion Report and Log form.)
January, 1980 48# Set 13 3/8" casing @ 485' cemente Logged by Dresser from 485' - 225 Set 10 3/4" 40.5# casing @ 2073'.	d with 635 sks. class H,	2% c.c. circulated cement.
Top of cement 1100'. Temp survey N.U. and tested B.O.P.'s drilled	by McCullough.	Dica
Information on this well is to be	held confidential.	MEGENVAIN
		APR 1 8 1980
		DIVISION OF OIL, GAS & MINING
18. I hereby certify that the foregoing is true and correct BIGNED 41114 Av. 456	Field Supervisor	DATE 3-17-80
(This space for Paters) on State office use)		
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATH

	INITED STATES SENT OF THE INTER	SUBMIT IN TRIPLICATE* (Other instructions on re-	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
	EOLOGICAL SURVEY	IOI (voice sine)	U-19442
	CES AND REPORTS	ON WELLS back to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1.			7. UNIT AGREEMENT NAME
OIL GAS WELL OTHER 2. NAME OF OPERATOR			Beaver River Unit 8. FARM OR LEASE NAME
COMINCO AMERICAN INCORD 3. ADDRESS OF OPERATOR			Federal 9. WELL NO.
510 Petroleum Building 4. LOCATION OF WELL (Report location cle See also space 17 below.) At surface	203 W. 8th Amari early and in accordance with any	110, Texas 79101 State requirements.*	2 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., M., OR BLK. AND
SW-4 NW-4 2200' FNL	1000'FWL		Sec. 28 T20S R8W
14. PERMIT NO.	15. ELEVATIONS (Show whether D	F, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE Utah
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1201 ((1222 222 222	PULL OR ALTER CASING	WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING WELL ALTERING CASING
SHOOT OR ACIDIZE	ABANDON* CHANGE PLANS	SHOOTING OR ACIDIZING (Other) (NOTE: Report results	of multiple completion on Well letion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPEL proposed work. If well is direction nent to this work.)* FEBRUARY 1980 Dr1g qtz @ 6803*	nally drilled, give subsurface loca	ations and measured and true vertice	al depths for all markers and zones perti
Confidential			
		•	RECEIVED APR 1 8 1980
			DIVISION OF OIL, GAS & MINING
18. I hereby certify that the foregoing is		anager, Oil & Gas	ДАТЕ4-14-80
'(This space for Federal or State offi	TITLE		DATE



Form 9-331 (May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on re-

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

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GEOLOGICAL	SURVEY		

U-k8442 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

Beaver River Unit

8. FARM OR LEASE NAME

Federal

9. WELL NO.

2. Detroleum Bldg. 203 W. 8th Amarillo, Texas 79101

4. Location of Well (Report location clearly and in accordance with any State requirements.*

Wildcat

11. Sec., T., R., M., OR BLE. AND

SURVEY OR AREA

WILCATION.

SW-4 NW-4 2200' FNL 1000' FWL

Sec. 28 T20S, R8W

12. COUNTY OR PARISH 13. STATE

Millard Utah

14. PERMIT NO.

16.

4612 GR

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL WATER SHUT-OFF PULL OR ALTER CASING TEST WATER SHUT-OFF ALTERING CASING PRACTURE TREATMENT MULTIPLE COMPLETE ERACTURE TREAT ABANDONMENT* SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE CHANGE PLANS (Other) REPAIR WELL (Nors: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

CONFIDENTIAL

MARCH 1980

3-27-80 Begin coring. Cut 21' core @ 8935' - 8956'

Drlg. dolo. & Limestone @ 9522'

Confidential



DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct		DATE 4-14-80
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

Form 9-331 (May 1963)

UNITED STATES SUBMIT IN TRIPLICATED DEPARTMENT OF THE INTERIOR (Other instructions on reverse side)

	Form a Budget			υ. 42	-R1	1424.
LEASE	DESIGN.	A 4144 N	1 N II	diam'r.	4.	MA.

	GLOCOGICAL SURVET	1 U-19442
	SUNDRY NOTICES AND REPORTS ON WELLS (100 not use this form for proposals to drill or to despit or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.	6. IF INDIAN, ALLOTTER OR TRIBE NAME
ī.	OIL VINY GAS [7]	7. UNIT AGREEMENT NAME
2.	NAME OF OPERATOR	BEAVER RIVER UNIT
	COMENCO AMERICAN INCORPORATED	FEDERAL,
3.	ADDRESS OF OPERATOR	9. WELL NO.
4.	510 Amarillo Petroleum Building, Amarillo, Texas 79101 toextros of well (deport location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	2 10. MIGID AND POOL, OR WILDCAT WILDCAT
	SW/4 NW/4 2200' FNL and 1000' FWL	11. MMC., T., R., M., OR BLK. AND HURVBY OR ARMA
14	PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Sec. 28, T20S R80
	4612 GR	Millard Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

Nors	CR OF H	PENTION TO:		тизоравнов	REPORT OF:	* *
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF	REPAIRING WELL	
FRACTURE TREAT		MC LTIPLE COMPLETS	1	FRACTURE TREATMENT	ALTERING CASING	<u> </u>
SHOOF OR ACTORS		· ABANDON®		SHOOTING OR ACIDIZING	ABANDON MENT*	
REPAIR WELL	.	CHANGE PLANS]	(Other)	er er sammer er en	
(Other)	. :			(Nork: Report results of a Completion or Recompletion	ulfiple completion on Wel Report and Log form.)	i

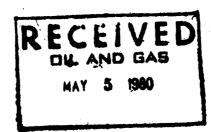
17. htts: aim enorms to or complete order viols (Clearly stafe all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Week of April 12 through 18, 1980

Present total depth 11,028'. Rig repair April 12 through 18.

Confidential

BOB	□ WK
	T RJZ
P.FE	MIL
P.FE	L CIM
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SHENED - June Of the State of

Turne Manager, Old & Gas

DATE April 18, 1980

DISTRICT ENGINEER

APR 3 0 1980

	TED STATES MENT OF THE INGREDICAL SURVE	TERIOR (Other lustructions on re-	Form Budge 6. LEASE DESIGN	approved, No. 42-R1434. MATION AND SERIAL BO.
SUNDRY NOT (Do not use this form for propos Use "APPLICA	ICES AND REPOR	RTS ON WELLS plug back to a different reservoir. such propossis.)	6. IF INDIAN, A	LLOTTES OR TRIBE NAME
OIL XXX WELL OTHER	•		7. UNIT AGREE	IVER UNIT
COMINCO AMERICAN INCORPO	RATEN	·	8. PARM OR LE FEDERAL	PER NYMB
. ABDRESS OF OPERATOR	1411111		D. WELL NO.	
10 Amarillo Petroleum B	uilding Amarill	o. Texas 79101	2	BOOL, OR WILDOAD
See also space 17 below.)	•		WILDCAT	west on assessed a
SW-4 NW-4 2200' FNL	and 1000' FWL			
é. PREMIT NO.	15. SLEVATIONS (Show when	ther se, st, qs, etc.)	12. COUNTY OR	PARISH 18, STATE
	4612 GR		Millard	LTTAH
Check Ap	propri <mark>ate Box To Indic</mark>	ate Nature of Notice, R <mark>eport,</mark> or C	Other Data	
NOSICE OF INCEN	TION TO:	BURANQU	ENT REPORT OF:	
	PULL OR ALTER CASING	WATER SHUT-OFF	ABDA	ipind marr
·	ALANDON*	PRACTURE TREATMENT SHOOTING OR ACIDISING	-	MING CABING
	HANGE PLANS	(Other)		BORNENA.
(Other)		(NOTE: Report results Completion or Recomple rtiuent details, and give pertinent dates, locations and measured and true vertices	etion Report and	Log form.)
		of 11,500'. Well is no		and the second s
projected TD of 12,500	O'. Casing progr	ram is not expected to be	affected	ex cept
for the additional footag	ge needed.		3 13 3 01	
e anticipate encountering	ng the Juras sic f	formation somewhere near	12,200	1
	CEIVED AND GAS	200	\\.	
M/	AY 5 1980	☐ BOB ☐ AEP ☐ RFE ☐ ERS	RJZ	
		FILE		
. I hereby certify that the foregoing is	true and Arrest			
		Manager, Oil & Gas	A.	mil 17 1000
AIGMBD COME OF	TITLE	Manager, Off & Gas	DATE AU	ril 17, 1980
	o uso) FOF		DATE OF	APR 3 0 1980

*See Instructions on Reverse Side

UNITED STATES BEPARTMENT OF THE INTERIOR COLUMN COL

BMIT IN TRIPLICATES ther instructions on re-	Budget Bureau No. 42-R1	14
se side)	5. LEASE DESIGNATION AND SERIAL	N

· ·			AND	 AU
	U-19	442		

GEOLOGICAL SUF	U-19442
SUNDRY NOTICES AND REPORT OF THE PROPERTY OF T	ORTS ON WELLS or plug back to a different reservoir, for such proposals.)
1.	7. UNIT AGREEMENT NAME
WELL GAR COTHER	.
2. NAME OF OPERATOR	Beaver River Unit
COMINCO AMERICAN INCORPORATED	1
3. ADDRESS OF OPERATOR	Federal 9. While NO.
Suite 510 Petroleum Building, Amarill	9 Tayon 70101
To the action of while exchange incultant clearly and in accordance.	
See also space 17 below.) At surface	with any State requirements.* 10. Fig.D AND POOL, OR WILDCAT
•	Wildcat
SW 1/4 NW 1/4 2200' FNL and 1000	11. MBC., T., R., M., OR RLK, AND SURVRY OR AREA
14. PERMIT NO. 15. ELEVATIONS (Show	Sec. 28, T20S, R8W
	12. COUNTY OR PARISH 13. STATE
4612 GR	Millard Utah
18. Check Appropriate Box To Inc	dicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:	•
1 1	BUBHRQUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SILUT-OFF REPAIRING WELL
FRACTURE TREAT	FRACTURE TREATMENT ALTERING CAMING
SHOOT OR ACIDIZE ABANDON*	SHOOTING OR ACIDIZING ABANDONMENT*
REPAIR WELL CHANGE PLANS	(Other)
(Other)	(Nork: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) pertinent details, and give pertinent dates, including estimated date of starting any face locations and measured and true vertical depths for all markers and some perti-
Week March 24-28	
Drilling dolomite to 9043	•
billing dolomite to 5043.	Annual Control of the
Confidential	RECEIVED ON AND GAS
	MAY 12 1960
and the second s	
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	NK
□ AB7	RJZ
□ RFE	
□ ERS_	
T FILE	
8. I hereby certify that the foregoing is true and confrect	en de la companya del companya del companya de la c
SIGNED - Some Ochricht TITI	Manager, Oil & Gas DATE 4-8-80
(This space for Federal or State office use)	9.
- D 10:1	FOR E. W. GUYNN MAY A 7 1000
CONDITIONS OF APPROVAL IF ANY:	DISTRICT ENGINEER THAT U. L. MOLL

APPROVED FOR UNIT PURPOSES ONLY

*See Instructions on Reverse Side

Form 9 (May 1	
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UNITED STATES

SUBMIT IN TRIPLICATE*
(Other instructions on re-

Form approved. Budget Bureau No. 42-R1424.

DEPA	ARTMENT OF THE I	NIERIOR verse side)	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SUR	RVEY	U-19442
SUNDRY I	NOTICES AND REPO	ORTS ON WELLS or plug back to a different reservoir. for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
			7. UNIT AGREEMENT NAME
OIL GAS WELL OT	HER		Beaver River Unit
NAME OF OPERATOR			8. FARM OR LEASE NAME
COMINCO AMERICAN I	NCORPORATED		Federal
ADDRESS OF OPERATOR			9. WELL NO.
510 Petroleum Bldg	. 203 W. 8th Ama	rillo, Texas 79101	2 10. FIELD AND POOL, OR WILDCAT
See also space 17 below.)	ation clearly and in accordance	with any State requirements.*	
At surface			Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR ARBA
SW/4 NW/4 2200'	FNL 1000' FWL		Sec 28 T20S R8W
4. PERMIT NO.	15. ELEVATIONS (Show	whether DF, RT, GR, etc.)	Millard Cty UTAH
s. Che	ck Appropriate Box To In	dicate Nature of Notice, Report,	or Other Data
NOTICE OF	INTENTION TO:	ļ su	BSEQUENT REPORT OF:
	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
TEST WATER SHUT-OFF FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Note: Report re Completion or Re	esults of multiple completion on Well completion Report and Log form.)
APRIL, 1980 Drilled dolomite, and Accoustic logs Confidential	limestone, shale as. Drilled to 12,7	and quartzite to 11,030. 700 in sandstone, limesto	Ran Dual Induction one and shale.
Confidential			PECETYFU MAY 1 5 1980
			DIVISION OF CIL, GAS & MINING
8. I hereby certify that the fore	going is true and correct		
SIGNED & Sweet	Whatel TI	TLE Manager, Oil & Gas	DATE 5-12-80
(This space for Federal or S	tate office use)		
APPROVED BYCONDITIONS OF APPROVA		TLE	DATE

Form 9-311 (May 1968)	DEPARTM	ED STATES IENT OF THE INTER	RIOR (Other instruction of the verse side)	Form approved. Budget Bureau No 5. LEASE DESIGNATION AND 1 U-19442 6. 15 INDIAE, ALLOTTES OR 2	BREAL NO.
SU . (Do not use th		CES AND REPORTS	ON WELLS r back to a different reservoir. proposais.)	6. IF INDIAM, AUGUSTAN ON A	
	Use "APPLICA"	HON FOR PERIOD		7. UNIT AGREEMENT NAME	- Unit
OIL STAN GAM	. П отнав			Beaver River	runt
WHILL WELL				Federal	
COMINCO AM	ERICAN INCOR	RPORATED		9. WALL NO.	
TARRES OF OPENA	TOR		101	2	
510 Petrole	eum Building	y Amarillo, TX 79) 101	.10. FIELD AND POOL, OR WI	LDCAT
4. LOCATION OF WELL See also space 17 At surface	. (Report location ci	early and in accordance with a	my nesse sugarion	Wildcat 11. asc., T., a., M., OR BLK.	AMD
SW/4 NW/4	2200' FNL	1000' FWL		Sec. 28 T20	
14		15. BLEVATIONS (Show whether	r DF, HT, GR, etc.)	12. COUMTY OR PARISH 18	UTAH
14. PREMIT NO.		4612 GR		Millard	UIAI
			Nature of Notice, Report, o	or Other Data	•
16.			aus	SEQUENT REPORT OF:	•
	NOTICE OF INTER	ITION TO:	\ .	ABPAIRING WELL	
TRAT WATER SHI	UT-087	PULL OR ALTER CABING	WATER SHUT-OFF	ALTERING CASIN	
PRACTURE TREAT	• • •	MULTIPLE COMPLETE	PRACTURE TERATMENT	*THEMNOGRADA	
SHOOT OR ACIDIS	·•	ABANDON*	1		
REPAIR WELL	لسا	CHANGE PLANS	(Norn: Report re	suits of multiple completion on completion Report and Log form.)	
(Other)	TO MAN MORNIN OR	TRATIONS (Clearly state all perf	tinent details, and give pertinent d	ates, including estimated date of	f starting any ad somes perti-
17. DESCRIBE PROPOSI proposed work next to this wo	ED OR COMPLETED OF C. If well is direct.	ionally drilled, give subsurface	completion of Rec	greetes asymmetry	,,,
	•				·
	•		0200 - G	1500' and prepare	
To circul	late heavy m	ud 9000-13,193; s	et cement plug 9200-9 royal given by Mr. Ed	Guynn 5/15/80.	
to set 5	1/2" csg @	9150'. Verbal app	roval given by Mr. Ed	#	
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Confiden	tiai				
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	fy that the foregoin	ag is true and correct	տ Manager, OIL & GAS	DATM	80
BIGNED -					
	or Federal or Blate	office uso)	FOR E. W. GUYNN DISTRICT ENGINEER	DATE MAY	30 1980
APPROVEDCONDITIONS	B UP ABPROVAL.	IF ANY:	D FOR UNIT PURPOS	ES ONLY	

*See Instructions on Reverse Side \

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Perm 9-331 UN-ED ST. MAY 1008) DEPARTMENT OF TI GEOLOGICAL	HE INTERIOR	UBMIT IN TRIPIOTE Other instructions on recrue side)	Form approve Budget Burea 5. LEASE DESIGNATION U-19442	u No. 42-B1424.
SUNDRY NOTICES AND (Do not use this form for proposals to drill or to use "APPLICATION FOR PERM	REPORTS ON \	WELLS a different reservoir.	6. IF INDIAN, ALLOTTES	OR TRIBE WAME
OIL XX WALL OTHER			Beaver River	Jnit
2. HAMS OF OPERATOR COMINCO AMERICAN INCORPORATED			8. FARM OR LEAGE NAM Federal	
510 Amarillo Petroleum Building	Amarillo, Te	xas 79101	9. WELL NO.	
4. LOCATION OF WELL (Report location clearly and in acco See also space 17 below.) At surface		equirements.•	Wildcat 11. SEC., T., B., M., OR S	
SW/4 NW/4 2200' FNL 1000' F	WL		Sec. 28 T20S	
14. PRAMES NO. 15. MANATIONS 4612 ((Show whether DF, RT, GR,	(da.)	12. COUNTY OF PARISH	18. erass UTAH
16. Check Appropriate Box	To Indicate Nature		Other Data	
TRET WATER SHUT-OPP PRACTURE TREAT SMOOT OR ACIDIES ABANDON* CHANGE PLANS		WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDISING (Other)	ALTERING CAMPLEING OF MULTIPLE COMPLETION	on Well
(Other)	state all pertinent detai subsurface locatiqus us	Completion or Recon	pietion Keport and Log-tol	m.)
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly proposed work. If well is directionally drilled, give	s sunsuiriace westique us	Completion or Recon ils, and give pertinent date nd measured and true vert	apietion Report and Log-tol es, including estimated dat ical depths for all markers	m.)
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly proposed work. If well is directionally drilled, give ment to this work.) Week of April 19 - 25.	rilling limesto	Completion or Recon ils, and give pertinent date nd measured and true vert	apietion Report and Log-tol es, including estimated dat ical depths for all markers	m.)
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly proposed work. If well is directionally drilled, give next to this work.) Week of April 19 - 25.	rilling limesto	Completion or Reconsist, and give pertinent date and true vert and true vert	apietion Report and Log-tol es, including estimated dat ical depths for all markers	m.)
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly proposed work. If well is directionally drilled, give next to this work.) Week of April 19 - 25.	rilling limesto	Completion or Reconsist, and give pertinent date and true vert and true vert	RECE	e of starting any and some parti-
(Other) 17. DEBCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly proposed work. If well is directionally drilled, give ment to this work.) Week of April 19 - 25. Present total depth 12,112. Dr	villing limesto	Completion or Reconsist, and give pertinent date and true vert and true vert	RECE	IVEC
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly proposed work. If well is directionally drilled, give ment to this work.) Week of April 19 - 25.	rilling limesto	Completion or Reconsist, and give pertinent date and true vert and true vert	RECE	IVEC DGAS 9 1980

*See Instructions on Reverse Side

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Porm 9-331 (May 1963) DEP	LED STARTMENT OF THE	HE INTERIOR	SUBMIT IN TRA ATRO (Other instructions on re- verse side)	Form approved. Budget Bureau No. 42-R1424 5. LEANE DESIGNATION AND SERIAL NO. 15-19442
SUNDRY (Do not use this form for Use "/	NOTICES AND I	REPORTS ON	WELLS to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL WELL GAS WELL O	THER			7. UNIT AGREEMENT NAME BEAVER RIVER UNIT 8. FARM OR LEASE NAME
COMINCO AMERICAN 8. ADDRESS OF OPERATOR	INCORPORATED			FEDERAL 9. WBLL NO.
51() Amarillo Petr 4. Location of While (Report to See also space 17 below.) At surface	oleum Building cation clearly and in accor	Amarillo, T	X 79101 to requirements.*	2 10. FIELD AND POOL, OR WILDCAT WILDCAT 11. SEC., T., R., M., OR REE. AND RUNWAY OR ARRA
SW/4 NW/4 2200'	FNL and 1000' I	PWL.		Sec 28, T20S R8W
14. PERMIT NO.	15. ELEVATIONS	Show whether DF, RT,	GR, etc.)	12. COUNTY OR PARISH 18. STATE
	4612	- GR		Millard Utah
16. Che	eck Appropriate Box	To Indicate Natu	ure of Notice, Report, or (Other Data
Notice (F INTENTION TO:	,	ÇABBÜ B.	UENT REPORT OF:
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL	PULL OR ALTER CAS MULTIPLE COMPLET ABANDON® CHANGE PLANS		WATER SHUT-OFF PRACTURE TREATMENT MHOOTING OR ACIDISING (Other)	ABANDONMENT®
(Other) 17. DESCRIBE PROPOSED QL 4'0MP; proposed work. If well is	ETED OPERATIONS (Clearly s		Completion or Recomp	s of multiple completion on Well pletion Report and Log form.) s, including estimated date of starting an cul depths for all markers and sones fact
depth of 13,500. additional footag	Casing program e needed.	is not expe	s now to be drilli cted to be affecte ation somewhere ne	
				RECEIVED
				MAY 19
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10 1 hashe mostly that the A-	manipo la tann and and			
81GNED SIGNED	. Cach	,	nager, Oil & Cas	DATE 4-29-80
(This space for Federal or	State office use)	FOR	E. W. GUYNN DISTRICT ENGINEER	DATE MAY 1 4 1980
CONDITIONS OF APPROV			T PURPOSES ONLY	

*See Instructions on Reverse Side

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SUBMIT IN TRII (Other Instruction verse side)

form approved. Budget Bureau No. 42 R1424.

GEOLOGICAL SURVEY	11-19442 6 IP INDIAN, ALEOTERS OR TRIBE NAME		
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposats to drift or to deepen or plug back to a different reservoir. (The "APPLICATION FOR PERMIT" for each proposals.)			
I.	7. UNER AURENNERNY NAME		
WELL XX WELL OTHER	S. FARM OR LEASE NAME		
2. NAME OF OPERATOR COMENCO AMERICAN ENCORPORATED	Beaver River Unit		
3. ADDRESS OF OPERATOR 510 AMERICATOR Petroleum Burlding American, Texas 79101	1). EIGLD AND POOL, OR WILDCAT		
A LOCATION WITH (Report location clearly and in accordance with any State requirements.* See also space 1 i below 1 At surface	Wildcit II. Nuc., T., R., M., OR BEK. AND NORWWY OR ARMA		
SW/4 NW/4 2200' FNL 1000' FWL	Sec. 28 T20S R8W		
14. PERMIT NO. 15. ELEVATIONS (Show whether BF, RT, QR, etc.)	Millard Cty UTAH		
4612 GR			

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

REPAIRING WELL PULL OR ALTER CASING ALTERING CASING PRACTURE TREATMENT ABANDONMENT* SHOOTING OR ACIDIZING (Nork: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) REPAIR WELL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

April 26 - May 2

Present total depth 12,804 Drilling 95% sandstone & 5% shale Confidential

HAY 19 1980

18. I hereby certify that the foregoing is true and correct	Turks Manager, Oil & Gas	DATE 5-5-80
(This space for Federal or State office use)	The sale of IVAIA	MAY 1 4 1980

APPROVED FOR UNIT PURPOSES ONLY

UN ED STATES SUBMIT IN TRIP ATES DEPARTMENT OF THE INTERIOR (Other instructions of re-

Form approved. Budget Bureau No. 42-R1424.

U-19442

5.	LEASE	DERIGN		

GE	COLC	JGI	CAL	_ =	U	K V	ET			
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(Do not use this form for pro-	DTICES AND REPORTS ON WELLS possible to drift or to deepen or plugsback to a different reservoir.	G. IF INDIAN, ALLOTTEE OR TRIBE NAME
1.		7. UNIT AGREEMENT NAME
WELL WELL OTHER		Beaver River Unit
2. NAME OF OPERATOR		8. FARM OR LEASE NAME
COMINCO AMERICAN INCOL	RPORATED	Federal 9. WELL NO.
510 Amarillo Petroleum	n Building Amarillo, Texas 79101	2
See also space 17 below.) At surface	r clearly and in accordance with any State requirements.	To FIELD AND POOL, OR WILDCAT
SW/4 NW/4 2200' FNI	L 1000' FWL	11. BRC., T., R., M., OR BLE. AND SURVEY OF AREA Sec. 28 T20S R8W
14. PERMIT No.	16. RIEVATIONS (Show whether DF, NT, GR, etc.) 4()12 CR	Millard Cty. Utah
16. Check A	Appropriate Box To Indicate Nature of Notice, Report,	or Other Data

(Nork: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pertinent to this work.) •

Present Total Depth 13,193. Run DLL & MCLL, Density-Neutron Accustic Logs to 13,184.

Confidential

Run Frac log.

BILGOT OR ACIDIZE

MAY 19 1580

18. I hereby certify that the foregoing is true and correct	TITLE Man:	nger, Oil & Gas	ратв 5-9-80
(This space for Federal or State office use) APPROVED SY CONDITIONS OF APPROVAL, IF ANY:	FOR	E. W. GUYNN DISTRICT ENGINEER	DATE MAY 14 1980

APPROVED FOR UNIT PURPOSES ONLY

*See Instructions on Reverse Side

Perm 9-331 (May 1968) DEP	DMITED STA ARTMENT OF TI GEOLOGICAL	HE INTERIOR	UBMIT IN TRIPLICATED Diter instructions on re-	Form approved. Budget Bureau 5. LEASE DESIGNATION AN U-19442	No. 42-R1424. D SERIAL NO.
SUNDRY I	NOTICES AND I	REPORTS ON V		6. IF INDIAN, ALLOTTER O	R TRIBE HAMB
OIL GAN WELL OT	HBR			7. UNIT AURBEMBNT NAME BEAVER RIVER U 8. FARM OR LEADE NAME	
COMINCO AMERICAN 8. ADDRESS OF OPERATOR	INCORPORATED			FEDERAL 9. WHILL NO.	
510 Amarillo Pet 6. LOCATION OF WELL (Report location space 17 below.) At surface	roleum Building	dance with any State re		2 10. FIRLD AND POOL, OR V WILDCAT 11. 68C., T., R., M., OR RLE SURVEY OR ARMA	
SW/4 NW/4 2200		Show whether DF, RT, GR,		SEC. 28 T20S	R8W
TE. PARMIT NO.	4612 CR	Show whether up, RT, OR,		12. COUNTY OR PARISH 1	UTAH
•	k Appropriate Box	To Indicate Nature o	of Notice, Report, or Ot	her Data	
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSED OR COMPLET PROPOSED WORK. If well is nent to this work.) **	PULL OR ALTER CAS MULTIPLE COMPLET ABANDON* CHANGE PLANS ED OPERATIONS (Clearly S directionally drilled, give	100	Completion or Recomplet	REPAIRING WEL ALTERING CASI ASANDONMENTS f multiple completion on ion Report and Log form, icluding estimated date of depths for all markers as	Well
May 10 through	May 16, 1980			•	•
PTD 13,193 Pre	pare to plug ba	ick and set pip	e.		
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Confidential				4 ** 4 ********************************	
			ą.	•	
18. I hereby certify that the fores	ging is true and correct	TITLE Manager	Oil & Gas	DATE 5-16-80	
(This space for Federal or St	ate office use)	FOR E.V	V. GUYNN TRICT ENGINEEA	DATE MAY 3	0 1980

APPHOVED FOR DINIT FUNFUSES CINLY

Form 6-311 (May 1968)	UMED STATES ARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	SUBMIT IN TRIP ATEO	Form approved. Budget Bureau No. 42-1 5. LEASE DESIGNATION AND SERIAL	
CLINIDAY	NOTICES AND REPORTS O	NI WELLC	6. IF INDIAN, ALLOTTER OR TRIBE	MAMB
	PPLICATION FOR PERMIT—" for such pro			
I			7. UNIT AGREEMBNT NAME	
OIL WELL OT	FHÁR		BEAVER RIVER UNI	T
COMINCO AMERICAN	INCORPORATED		FEDERAL	
\$. ADDRESS OF OPERATOR			9. WELL NO.	
510 Amarillo Petr	oleum Bldg. Amarillo sation clearly and in accordance with any 8	TX 79101	2 10. PIBLD AND POOL, OR WILDCAY	
See also space 17 below.) At surface			WILDCAT	
	0.4 PM - 1.0.0.4 PM		11. anc., T., R., M., OR BLK. AND SURVEY OR AREA	
SW./4 NW/4 220	0' FNL 1000' FWL		Sec 28 T20S R8W	* *
14. PARMIT NO.	15. BLEVATIONS (Show whether DF,	RT, QR, etc.)	12. COUNTY OR PARISM 18. STATE)
16. Che	ck Appropriate Box To Indicate No	ature of Notice, Report, or O	ther Data	•
NO EDITON	FINTENTION TO:	IUpanaua.	BNT REPORT OF:	7
THAT WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF FRACTURE TERATMENT	ALTERING CARING	-
SHOOT OR ACIDISS	ABANDUN*	SHOUTING OR ACIDISING	AMANDONMENT ^a	
REPAIR WELL	CHANGE PLANS	(Other) (Norm: Report results	of multiple completion on Well tion Report and Log form.)]
(Other) 17. DESCRIBE PROPOSED OR COMPLE proposed work. If well is nent to this work.)	TED OPERATIONS (Clearly state all pertinent directionally drilled, give subsurface locations)	details, and give pertinent dates.	including estimated date of starting	porti-
•		e.		
MAY 21, 1980			•	
Circulated heavy	mud 13,193 - 9200'.		•	
•		/211 againg 11/640	anaka anmont	
9 9238'.	240 - 9540'. Set 5 1	/2" casing w/040	sacks cement	
	moving out drilling r	do Prenare to m	ove in	
	londay May 26, 1980.	ig. Hopard to m		
•			• ,	\$ 1.
Confidential				• • • •
•			4.	
			3.7 3.7	
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		ı		
	^		•	
18. I hereby certify that the fore	agoldin true and coproct			
BIGNED C. Sauce	TITLE Mar	nager, OIL & GAS	DATE 5-21-80	
(This space for Federal or S	•		AAM 0.0 4A4	^^
APPROVED BY Fan	TITLE FOR	E. W. GUYNN DISTRICT ENGINEER	MAY 30 19	שש

APPROVED FOR UNIT PURPOSES ONLY

APPROVED BY CONDITIONS

	DEPARTMENT OF TH	ATES HE INTERIOR	SUBMIT IN TRIC (Other instructions verse side)	OR re-	Form approved. Budget Bureau N BASE DESIGNATION AND	
	GEOLOGICAL	SURVEY	•		U-19442	
	DRY NOTICES AND R form for proposals to drill or to d 'Use "APPLICATION FOR PERMI			6. 11	F INDIAN, ALLOTTHE OR	TRIBO NAME
1.				7, U	NIT AGESSMENT NAME	
Wail XXX WALL	OTHER	· · · · · · · · · · · · · · · · · · ·			aver River	Unit
2. NAME OF OPERATOR	MERICAN INCORPORA	TED	·	1	ARM OR LEASE NAME	
		····			ederal	
510 Amari	11o Petroleum Bld	lg. Amarillo	TX 7910	1 2		
6. LOCATION OF WELL (Re See also space 17 belov At surface	110 Petroleum Bld	dance with any State	requirements.*	10.	FINLE AND POOL, OR WI	LDCAT
SW/A NW/	4 2200' FNL 10	000' FWL		11.	SHC., T., R., M., OR RLE.	AND
QH/4 14H/	7 2200 INE 10			Se	c 28 T20S F	28W
14. PRAMIT NO.	15 BLEVATIONS (Show whether DF, RT, GE	t eta)		COUNTY OF PARISH 18	
	10	5.00 Wasani 15, 11, 42	, was, j	L L	lard Cty	UTAH
**************************************						UIAII
16.	Check Appropriate Box 1	lo Indicate Nature	of Notice, Report	, or Other	Data	Y Lan
` X	OTICE OF INTENTION TO:			A THEUDROGUE	BPORT OF:	
TEST WATER SHUT-OF	PP PULL OR ALTER CAS	ING	WATER SHUT-OFF		REPAIRING WELL	
PRACTURE TREAT	MULTIPLE COMPLET	■	PRACTURE TREATMENT	•	ALTERING CARIN	•
AHOOT OR ACIDISE	ABANDON*		SHOOTING OR ACIDISI	10	AHANDONMBHT*	+
(Other)	CHANGE PLANS		(Other) Report	results of mu	itiple completion on (Report and Log form.)	val \
		Philipson)	is	OIL	AND GAS	1
May 17 th	rough 23, 1980	. s.		701	N 2 1980	
Set cmt p	rough 23, 1980 lug 9240-9540. S heavy mud 13,193 own rig and waiti	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				an vig and MPS
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p	lug 9240-9540. S	3' to 9000'				
Set cmt p Circulate Tearing d	lug 9240-9540. S	ing on comp		expect		-80

APPROVED FOR UNIT PURPOSES ONLY

Form 9-331 (May 1968)	DEPARTMEN	TED STATES FOR THE INTER OGICAL SURVEY	SUBMIT IN TRIPLICATES (Other Instructions on reverse side)	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO. U-19442
SUN (Do not use thi	NDRY NOTICES Form for proposals to Use "APPLICATION	AND REPOR	DE GEELS VED	G. IN INDIAN, ALLOTTES OR TRISS NAME
OIL WELL X WELL 2. NAME OF OPERATOR	OTHER		JUN 19 1980	7. UNIT AGREEMENT NAME Beaver River Unit 8. FARM OR LEASE NAME
8. ADDRESS OF OPERATO			rillo, TX 79101	Federal 9. WELL NO. 2 10. FIBLD AND POOL, OR WILDCAT
At aurface	low.)	1000' FWL	, same requirements.	Wildcat 11. esc., z., s., m., or sik. and survey of area
14. PERMIT NO.		SLEVATIONS (Show whether i	DF, RT, QR, etc.)	Sec. 28 T20S R8W 12. COUNTY OR PARISH 18. STATE Millard UTAH
16.	Check Appropr		Nature of Notice, Report, or C	
TEST WATER SMUT- FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)			WATER SHUT-OFF FRACTURE TESATMENT SHOOTING OR ACIDIZING (Other) (Note: Report results Completion or Recomple	altering walt ALTERING CARING ABANDONMENT* of multiple completion on Well etion Report and Log form.)
nest to this work,	well is directionally d		nt details, and give pertinent dates, actions and measured and true vertica	Including estimated date of starting any i depths for all markers and sones perti-
			and 2 3/8" tubing.	
•				
10 I hambe sentile the	t the forcester to the			
81GNED	cas roregoing is trus	() V	anager, Oil & Gas	DATE 5-30-80
APPROVED BY	eral or State office use)	TITLE FOR	E. W. GUYNN DISTRICT ENGINEER	JUN 13 1980

*See Instructions on Reverse Side

open

Form	9-331-
(May	1963)

Form approved.

Form 9-331 (May 1963)	DEPARTMENT	OF THE INT	ERIOR (Other instru	ct on re-	5. LEASE DESIGNATION A U-19442 0. IN INDIAN, ALLOTTES	ND SURIAL NO.
SUN (Do not use this	DRY NOTICES A	AND REPORT	S ON WELLS different reuch proposals.)	wervoir.	7. UNIT AGRESMENT NAL	
OIL XXX WELL	OTHER	وفالمستوانين والمستوان	The state of the s		BEAVER RIVE	R UNIT
COMINCO A	MERICAN INCO	RPORATED	and the second s		FEDERAL	
203 W. 8t LOCATION OF WELL (M. See also space 17 belo	h Suite 510	Potrolet ad in accordance wit	im Bldg. Amari h any State requirements.	110, TX	2 10. FINLD AND POOL, ON WILDCAT	
SW/4 NW/	4 2200' FNI	. 1000' FV	٧L		SEC 28 T20S	R8W
14. PBRMIT NO.	15. 4	LEVATIONS (Show who	ther DF, NT, GR, etc.)		12. COUNTY OF PARISH MILLARD	UTALL
1.6.	Check Appropr	ate Box To Indic	ate Nature of Notice	, Report, or C	Other Data	÷

NOTICE OF INTENTION TO: PULL OR ALTER CASING MELTIPLE COMPLETE

SHOOTING OR ACIDIZING

REPAIRING WELL ALTERING CABING

(Nors: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

May 30 through June 6

Run 2 3/8" tbg Perf 8922-361 Swab and take samples Set Retrievable Bridge Plug -UN 23 1980

E. W. GUYNN DISTRICT ENGINEER

DATE

APPROVED FOR UNIT PURPOSES ONLY

UNTED STATES DEPARTMENT OF THE INTERIOR (Other Instructions on verse side) GEOLOGICAL SURVEY

SUBMIT IN TRIPECATE

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND BERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

U-19442

SUNDRY	NOTICES		REPORTS	ON	WFIIC	
JUITURI	14011663	\neg 11 \cup	NEI ONIS	\sim 17	VV LLLJ	

(Do not use this form for proposals to drill or to deepen or plug tack
Use "APPLICATION FOR PERMIT" for such plon MRCE KY WELL DIL AND GAS OTHER BEAVER RIVER UNIT NAME OF OPERATOR FARM OR LEASE NAME JUN **30** 1980 COMINCO AMERICAN INCORPORATED FEDERAL ADDRESS OF OPERATOR WELL NO. 203 W. 8th Suite 510 Amarillo, LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface 10. FIELD AND POOL, OR WILDCAT WILDCAT BC., T., R., M., OR BLE. AND BURNRY OR ARRA SW/4 NW/4 2200' FNL 1000' FWL SEC 28 (T285) R8W 12. COUNTY OR PARISH | 13. STATE 15. ELEVATIONS (Show whether DF, RT, QR, etc.) 14. PERMIT NO. 4612 GR MILLARD UTAII 16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTE	CE OF IN	TENTION TO:		aum.	u dq u	ENT REPORT OF:
	C			1		, , , , , , , , , , , , , , , , , , , ,
TEST WATER SHUT-OFF	!]	PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CARING
вноот ок астиж		ARANDON®		SHOOTING OR ACIDIZING		ABANDONMBNT*
HEFAIR WELL		CHANGE PLANS		(Other)		
(Other)Monthly	Stat	us Report		(Nork: Report res Completion or Rec	uits mpi	of multiple completion on Well tion Report and Log form.)

17. DESCRIBE PROPOSED OR SOMERENTED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and mensured and true vertical depths for all markers and somes pertinent to this work.)

MAY, 1980

5-1 through 5-8 Drill to TD 13,193 Qtz, 1s, shale, siltstone 5-9- through 5-14 Run DLL & MCLL, Density Neutron, Accoustin logs to 13,184'. Then Frac log. 5-15-80 TD 13,193 5 - 16 - 80 Set cement plug 9200-9500 5-19-80 Set 236 jts 5 1/2" csg to 9238' 5-20 through 24 Rig down - wait on completion unit 5-29 through 31 RIII w/ 2 3/8" tubing. Perf @ 8922-36" Acidize w/500 gal MSA

Confidential

18. I hereby certify that the foregoing is true and correct. SIGNED		iger, Oil & Gas	DATE _	5-14-80
(This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	FOR TITLE	E. W. GUYNN DISTRICT ENGINEER	DATE _	'JUN 26 1980

APPROVED FOR UNIT PURPOSES ONLY

*See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR (Other Instruction red) GEOLOGICAL SURVEY	Form approved, Budget Bureau No. 42-R1424 5. LEASE DESIGNATION AND ABRIAL NO. U-19442
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTER OR TRIBE NAME
OIL WELL DTHER NAME OF OPERATOR COMINCO AMERICAN INCORPORATED	Beaver River Unit 8. FARM ON LEASE NAME Federal
. ADDRESS OF OPERATOR 203 W 8th Suite 510 Petroleum Bldg. Amarillo, TX	9. WELL NO.
. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	Wildcat 11. SBC., T., B., M., OB BLK. AND SURVEY OR ARBA
SW/4 NW/4 2200 FNL 1000 FWL 4. PERMIT NO. 15. BLEVATIONS (Show whether DF, RT, GR, etc.) 4612 GR	Sec 28 T205 R8W 12. COUNTY OB PARISH 18. STATS Millard Utah
6. Check Appropriate Box To Indicate Nature of Notice, Report, or C	
• •	UBNT REPORT OF:
(Other) (Completion or Recomp	ABANDONMENTO s of multiple completion on Well letion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertice nent to this work.) *	ul depths for all markers and sones per
June 6 through 14	•
Dropped 1153' tubing to bottom. Fish and recover to and bridge plug.	ubing, packer
	14.0
	C. TO BE
	JI' J'
18. I hereby certify that the foregoing is true and correst	~

8 I hereby certify that the foregoing is true and correct

8 IGNED

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

Manager, 011 & Gas

DATE June 20, 1980

JUN 26 1980

APPROVED FOR UNIT PURPOSES ONLY

*See Instructions on Reverse Side

Porm 9-331. May 1963)	FED STATES SEPARTMENT OF THE INTER GEOLOGICAL SURVEY	SUBMIT IN TRICATE (Other Instructions on re	
SUNDR (Do not use this form	Y NOTICES AND REPORTS n for proposals to drill or to deepen or plug mapplication for PERMIT—" for such	ON WELLS back to a different reservoir. proposais.)	
OIL GAS WELL WELL D	OTHER		7. UNIT AGRESMENT NAME BEAVER RIVER UNIT 8. FARM OR LEASE MAME
COMINCO AMER	ICAN INCORPORATED		FEDERAL 9. WELL NO.
See also space 17 below.) At surface	ite 510 Petroleum Bldg rt location clearly and in accordance with an 2200' FNL 1000' FWL	y. Amarillo, TX y State requirements.*	2 10. FIELD AND POOL, OR WILDCAT WILDCAT 11. SEC., T., R., M., OR BLK. AND SURVEY OR ARRA
SW/4 NW/4	16. KLEVATIONS (Show whether 4612		SEC 28 T20S R8W 12. COUNTY OR PARISH 18. STATE Millard UTAH
6.	Check Appropriate Box To Indicate	Nature of Notice, Report, or	
NOTI	CE OF INTENTION TO:	奥以西森斯	QUENT REPORT OF:
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSED OR CO- proposed work. If we nest to this work.)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS MPLETED OPERATIONS (Clearly state all pertins) is directionally drilled, give subsurface lo	('ompletion or Recom	ALTERING WELL ALTERING CASING ABANDONMENT* its of multiple completion on Well spletion Report and Log form.) st. including estimated date of starting a ical depths for all markers and sones per
· · · · · · · · · · · · · · · · · · ·			
	ough 20, 1980		
June 14 thro Ran casing i	inspection log, indica Bridge Plug @ 8918'. backer - set @ 8850'.	Perforate @ 8910-	15. RIH W/ 11. 15% HC1
June 14 thro Ran casing i Retrievable tubing and p	inspection log, indica Bridge Plug @ 8918'. backer - set @ 8850'.	Perforate @ 8910-	15. RIH W/ 11. 15% HC1.
June 14 thro Ran casing i Retrievable tubing and p	inspection log, indica Bridge Plug @ 8918'. backer - set @ 8850'.	Perforate @ 8910-	15. RIH W/ 11. 15% HC1

APPROVED FOR UNIT PURPOSES ONLY

E. W. GUYNN DISTRICT ENGINEER JUL 01 1980

FOR

(This space for Federal or State office use)

5. LEASE

UNITED STATES

DEPARTMENT OF THE INTERIOR	, U-19442
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME Beaver River Unit 8. FARM OR LEASE NAME
1. oil gas other	Federal 9. WELL NO:
2. NAME OF OPERATOR COMINCO AMERICAN INCORPORATED 3. ADDRESS OF OPERATOR	2 10. FIELD OR WILDCAT NAME Wildcat
203 W. 8th Suite 510 Amarillo, ITX 79101 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: AT TOP PROD. INTERVAL: SW/4 NW/4 2200 FNL 1000	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 28 T20S R8W W. COUNTY OR PARISH 13. STATE Millard Utah
AT TOTAL DEPTH: """ 11. II. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	14. API NO. 15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	4632 KDB
TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statingly including estimated date of starting any proposed work. If well is a measured and true vertical depths for all markers and zones pertine	irectionally drilled, give subsurface locations and
June 28 through July 4, 1980	

Pump 500 gal acid away. Swab. Recovered 212 barrels acid and formation water, with fluid level @ 800'. Reset BP @ 7810'. Perf 7724-78, acidize w/500 gal. Swab. Recovered 42 Barrels acid and load water and 26 barrels formation water. Acidize with 650 gal.

Subsurface Safety Valve: Manu. and Type	age of planters of the	Set @ Ft.
18. I hereby certify that the foregoing is true and co	rrect <u>Manager, Oil & Gas_{DAT}</u>	7-12-80
(This span	e for Federal or State office use)	
APPROVED BY TIT	LE D.	ATE

5. LEASE U-19442

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NA BEAVER RIVER UNI'I		
Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAM FEDERAL	E	
1. oil XX gas	9. WELL NO.		
2. NAME OF OPERATOR	2		
COMINCO AMERICAN INCORPORATED 3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT N WILDCAT	AME	
203 W 8th Suite 510 Amarillo, TX 79101 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR B AREA Sec 28 T20S R	LK. AND SURVEY OR	
AT SURFACE: SW/4 NW/4 2200 FNL 1000 FWL AT TOP PROD. INTERVAL!!	12. COUNTY OR PARISH MillardCounty	13. STATE Utah	
AT TOTAL DEPTH: 11 11 11 11	14. API NO.		
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW 4632 KDB	DF, KDB, AND WD)	
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:		Ą	
TEST WATER SHUT-OFF			
SHOOT OR ACIDIZE	. '		
REPAIR WELL	(NOTE: Report results of mu change on Form 9-		
MULTIPLE COMPLETE	.*		
CHANGE ZONES		, .	
ABANDON* (other) Progress report		•	
 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinent. July 5 through July 11, 1980 Swab, dry, no fluid entry. Recovered 30 Barrel Set Bridge Plug @ 7434'. Perf 7348-80' acidize formation water with small amount drilling mud. recover 35 barrels water. Reset Bridge plug @ 	s load water and a with 500 gal, 296 Shut in over nig	cid water. Barrels acid an	
Subsurface Safety Valve: Manu. and Type	Set	@ Ft	
18. I hereby certify that the foregoing is true and correct			
SIGNED TITLE Manager, Oil	& Gasdate7-12-80)	
(This space for Federal or State of	fice use)		
APPROVED BYTITLE CONDITIONS OF APPROVAL, IF ANY:	DATE		

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	5. LEASE U-19442 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME Beaver River Unit 8. FARM OR LEASE NAME
1. oil gas other other	Federal 9. WELL NO. 7
2. NAME OF OPERATOR COMINCO AMERICAN INCORPORATED 3. ADDRESS OF OPERATOR 203 W. 8th #510 Amarillo, TX 79101	10. FIELD OR WILDCAT NAME Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: SW/4 NW/4 2200 FNL 1000 FWL AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	AREA Sec 28 T20S R8W 12. COUNTY OR PARISH 13. STATE Millard Utah 14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 4632 KQB
SHOOT OR ACIDIZE	(NOTE: Report results of multiple completion or zone
ABANDON* (other) Progress report 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is different measured and true vertical depths for all markers and zones pertinent.	irectionally drilled, give subsurface locations and

June 21 through June 27

Swab and recover 100 barrels water (all load recovered previously) Reset bridge plug at 8390' 192 bbls. water Perforate and acidize 8350-67. SwabAand set bridge plug @ 8335'. Perforate @ 8286-8329

Subsurface Safety Valve: Manu. and Type	Set @	Ft.
18. I hereby certify that the foregoing is true and correct		
SIGNED TITLE Manager, 011 & GasDATE	5-28 -80	
(This space for Federal or State office use) APPROVED BY Tankeline FOR E. W. GUYNN TITLE DISTRICT ENGINEER DATE	JUL 10 1980	
CONDITIONS OF APPROVAL, IF ANY: APPROVED FOR LINET DURDOCES ON	11 V	

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

WA'TE UP COMINCO Ameri	can, Inc. (Bruce Barthel 806-3	12-0240)
WELL NAME: Beaver River Unit #2		
SECTION 28 SW NW TOWNSHIP 20S	_ RANGE _8W COUNTYMi1	lard
VERBAL APPROVAL GIVEN TO PLUG AND ABOMANNER:	OVE REFERRED TO WELL IN THE FOLL	OWING
TOTAL DEPTH: 13,193'		
CASING PROGRAM:	FORMATION TOPS:	
13 3/8" @ 485' circ to surf	Tertiary Valley Fill	0 - 1514'
10 3/4" @ 2073'	Top of Tertiary Carbonate	1514'
5½" @ 9238'	Top of Precambrian Mutual	2415'
perfs: 8922'-36' 7429'-7520' 8910'-15' 7348'-80' 8350'-67'	Precambrian Quartzites, Sandsto and Fillites Phy Thrustfault	nes 2514' - 8364' 8364'
8286'-8320'	Cambrian Notch Peak	8364' - 8938'
PLUGS SET AS FOLLOWS:	Top of Sneakover Limestone	8938'
1. 9540' - 9240' 300' plug	Lamb Dolomite	9632'
2. 8889' - 8689' 200' plug	Pierson Cove	10,600'
3. 8357' - 8157' 200' plug	Whirlwind	12,030'
4. 7520' - 7320' 200' plug	Dome Limestone	12, 150'
5. 7100' - 6900' 200' plug	Tatow	12,592'
6. 6618' - 6418' cmt retainer	Top of Prospect Mtn Quartzite	13,022'
7. $2200' - 2000'$ cut & pull $5\frac{1}{2}$ "	No shows: CO ₂ & N from 8950'-8	910';8936-8922'

8.8# drilling mud between plugs with KC1; ran flake and flour w/good circ.

DATE July 16, 1980

SIGNED

M. J. Muder

cc: USGS

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to	a different
reservoir. Use Form 9–331–C for such proposals.)	

1. oil gas XXX well well

AT TOTAL DEPTH:

- 2. NAME OF OPERATOR Cominco American Incorporated
- 3. ADDRESS OF OPERATOR 79101 203 W. 8th #510 Amarillo, TX
- 4. LOCATION OF WELL (REPORT LOCATION CLIARLY. See space 17 below.) AT SURFACE: AT TOP PROD. INTERVAL:
- 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF MOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: TEST WATER SHUT-QFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE **CHANGE ZONES**

SUBSEQUENT REPORT OF:

Budget Bureau No. 42-R1424

- 5. LEASE
- U-19442
- 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
- 7. UNIT AGRELMENT NAME Beaver River Unit
- 8. FARM OR LEASE NAME Federal
- 9. WELL NO.
- 10. FIELD OR WILDCAT NAME Wildcat
- 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 - Sec 28 T20S R8W
- 12. COUNTY OR PARISH 13. STATE Millard UTAH
- 14. API NO.
- 15. ELEVATIONS (SHOW DF, KDB, AND WD) 4632 KDB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

JUNE 1980

ABANDON* (other)

Fish for and recover 1153' of tubing. Run casing inspection log which showed casing in good shape.

Perf @ 8910-15 Acidize , Swab, recover water. No oil show.

Perf 8350-67'. Acidize, Swab, No oil show

Perf 8286-8320 Acidize, swab. Recovered water and drilling mud. No oil show.

Subsurface Safety Valve: Manu. and Type

Set @

Ft.

18. I hereby certify that the foregoing is true and correct

HILL Manager, Oil & Caspale 7-18-80

(This space for Federal or State office use)

CONDITIONS OF APPROVAL, II ANY.

THE

DATE

6. II INDIAN, ALLOTTEL OR TRIBE NAME

5. I FASE U-19442

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drift or to deepen or plug back to a different reservoir, Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME Beaver River Unit 8. FARM OR LEASE NAME Federal
1. oil gas dell other 2. NAME OF OPERATOR	9. WELL NO.
COMINCO AMERICAN INCORPORATED	10. HELD OR WILDCAT NAME Wildcat
3. ADDRESS OF OPERATOR 203 W. 8th Suite 510 Amarillo, TX 79101	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	Sec 28 T20 S R8W L12. COUNTY OR PARISH 13. STATE
AT SURFACE: SW/4 NW/4 2200 FNL 1000 FW AT TOP PROD. INTERVAL: " " " " " " " " " " " " " " " " " " "	Millard Cty UTAH
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	14. API NO.
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 4632 KDB
REQUEST FOR APPROVAL TO: TEST WATER SHUT OFF	(NOTE: Report results of multiple completion or zone change on Form 9-330.)
17. DESCRIBE PROPOSED OR COMPLLIED OPERATIONS (Clearly statingly stating any proposed work. If well is a measured and true vertical depths for all markers and zones pertined	Inectionally drilled, give subsurface locations and
July 12 through 18	
Perfs @ 7424-75201. Swab. Recovered 187 Barre of hydrocarbons. Make preparations to Piug & Alequipment.	l: Formation Water with no trace pandon. Load out excess

Subsurface Safety Valve: Manu and Type

Set (

Ft.

18. Thereby certify that the foregoing is time and correct

SIGNED STREET (Bookle

nnn Manager, Oil & Cashan

7-18-80

(The space for Lederal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY

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DAIL

OF UTAH

SI	-11	MIT	IN '	TRH	PLICATE*	
	(1	Hir		1111	hous on	
					1 . k	

DEPARTME		5. LEARS DESIGNATION AND BER U-19442	IIAL NO.
SUNDRY NOTICES AND (Do not use this form for proposals to drill or to "APPLICATION FOR PER	REPORTS ON WELLS	6. IF INDIAN, ALLOTTES OF THE	BE HAMB
Use "APPLICATION FOR PER	IMIT " for such proposals.)	7. UNIT AGREEMENT NAME	
OIL WALL OTHER	;	Beaver River Uni	it
2. NAME OF OPERATOR	· · · · -	S. FARM UR LBASE NAME	
COMINCO AMERICAN INCORPORATED		Federal	
8. ADDRESS OF OPERATOR			*
Suite 510, Petroleum Bldg. And Location of well (Report location clearly and in ac	arillo, Texas 79101 cordance with any State requirements.	10. PIRLD AND POOL, OR WILDS.	AT
Hee also upace 17 below.) At surface	1-906-372-80	246 Wildcat	
	1-00% 510 00	11. asc., T., A., M., OR BLE. AND SURVEY OR AREA	
2200' FNL and 1000' FWL			R8W
14. PERMIT NO. 16. BLEVATION	a (Show whether UF, RT, GR, etc.)	12. COUNTY OR PARISM 18. 61	TATE
	- · · · · · · · · · · · · · · · · · · ·	Millard Uta	ah
4612 G		D. O.1 D	
	x To Indicate Nature of Notice,		
NOTICE OF INTENTION TO:	, ,]	AUMMAQUENT REPORT OF:	
TEST WATER SHUT-OFF			
FRACTURE TREAT MULLIPLE COMPL	PRACTORS TAIL SHOOTING OR		
HOUT OF ACTURE ARANGON*	(Other)	A I I I I I I I I I I I I I I I I I I I	
(Other) Progress report	1 Alice	Report results of multiple completion on Well tion or Recompletion Report and Log form.)	
17. DEBCRIBE CROPOSED OR COMPLETE OF RACIOUS (Clearly proposed work. If well a directionally drilled, grant to this work.)			irting an ines port
February, 1980	e generalis. Handaris de personalis de la constantina de la constantina de la constantina de la constantina de la constantin		
Drilled from 3107' to 6803'.	Drilling sandstone.		
·	• 1		
**************************************	1	7777	
		DEC	x +
			S - N
•		JUL 2 5 1000 W	
•		DIVISION CF	
•		OIL, GAS & MINING	•
Course long to	•		
Confidential			
		•	
18. I hereby certify that the torgeting po true and curs	rect	* * * * * * * * * * * * * * * * * * * *	
BIGNED KILLING KILLIN	TITLE Field Supervis	sor DATE 3-17-80	
(This space for Federal of State office use)			
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE	

well 🔯

gas

well

AT SURFACE: SW/4 NW/4

AT TOP PROD. INTERVAL:

2. NAME OF OPERATOR

AT TOTAL DEPTH:

3. ADDRESS OF OPERATOR

COMINCO AMERICAN INCORPORATED

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9-331-C for such proposals.)

other

203 W 8th Suite 510 Amarillo, TX 79101
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17

U-19442
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Beaver River Unit
8. FARM OR LEASE NAME Federal
9. WELL NO.
10. FIELD OR WILDCAT NAME Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 28 T20S R8W
12. COUNTY OR PARISH 13. STATE Utah
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD) 4632 KDB
(NOTE: Report results of multiple completion or zone change on Form 9–330.)
e all pertinent details, and give pertinent dates, lirectionally drilled, give subsurface locations and nt to this work.)*
ions after receiving BLM and Sta ica flour at each of the following

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE. REPORT. OR OTHER DATA **REOUEST FOR APPROVAL TO:** SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL **PULL OR ALTER CASING** MULTIPLE COMPLETE **CHANGE ZONES ABANDON*** XX (other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinen July 15 Begin plugging operat te verbal approval. Spot 17 sx Class G cmt w/1/4#sx sil 8689-88891 8157-8357' 7320-7520' 6900-7100' No loss of circulation at any time. Set Baker cement retainer at 6618' and capped with with 17 sx Class G cement. Run free point and cut 5 1/2" casing @ 3250' and recovered. Spot Class G cement plugs at following intervals: 3150-3350' 2000-22001 No loss of circulation at any time. Removed 13 3/8" spool; 10 3/4" casing was solid to within a few feet of surface indicating that original cement job had nearly circulated. Squeeze 10 3/4" - 13 3/8" annulus with 5 sx and pressured up to 1200 psi and held. Cut casing below surface, set 10 sx cement plug and identification marker as prescribed. KCl water and mud (weight 8.8#/gal comparable to drilling fluid) was left between cement plugs. Finish P&A at 12:00 noon 7-19-80. Location will be completed as soon as mud pits can be closed. Subsurface Safety Valve: Manu. and Type 18. I hereby certify that the foregoing/is trale and correct Manager, Oil & Gaspate (This space for Federal or State office use) DATE CONDITIONS OF APPROVAL, IF ANY:

2200' FNL 1000' FWL

· as above

as above



Utah State Oil, Gas & Minerals Division 1588 West North Temple Salt Lake City, Utah 84116

Re: Suite of Open Hole Logs, Cominco American Federal #2 Well, Millard County, Utah

Attention: Kathy Avila

July 17, 1980

Dear Ms. Avila:

Under separate cover, I am sending you a suite of logs on the Federal #2 well, Millard County, Utah. The logs are tabulated on the attached sheet. As I mentioned on the phone, our company requests that these logs be held confidential for the maximum period allowed by the state of Utah.

When you receive the logs, please sign and date the attached copy of this letter and return to us for our files.

Very truly yours

Robert F. Ehinger Senior Geologist

RFE: yab

Enclosure: (1)

Kathy Avel Logs Received

SCHLUMERGER LOGS (FINAL RUN)

١

Dual Interolog Micro SFL Log FDC-CNL Log BHC - Sonic Log Open Hole Variable Density Amplitude Fracture Identification Log Waveforms Log Cyberdip Log

> DRESSER LOGS (INITIAL & INTERMEDIATE RUNS)

BHC Acoustilog Dual Induction Focused Log

13

November 20, 1980

Cominco American Incorporated 203 West 8th Suite 510 Amarillo, Texas 79101

> RE: Well No. Beaver River Unit #2 Sec. 28, T. 20S, R. 8W., Millard County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Barken Her

BARBARA HILL

CLERK TYPIST

/bjh

Enclosures: Forms

43-027-30017

EA #064-79

 	28	

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY CONSERVATION DIVISION

Sec.		
T	205	

8W

INDIVIDI	IAL	WELL	RECORD

SL	В	2,	. Me	_
	=			г.

PUBLIC LAND:	Da	toD	ecembe	r 23.	1980		Ref.	No1_	
Land office Utah			Sta	te	Uta	.b			
Serial No19442	-		_ Co	inty	<u>M11</u>	lard			
Lessee Columbia Gas De	v. Corp.	Et Al	Fie	ld	W11	dcat	····		
Operator Cominco Ameri	can. Inc.		Dis	trict	Sal	t Lake	City	·	
Well No2			Su	bdivisio	sw_	NW			
Location 2200' FNL	<u>& 1000' F</u>	WL							
Drilling approved Nov.	26	_ , 19 79	We	il elev a t	ion _40	12! GF	L		feet
Drilling commenced Dec	. 31	_, 19_7	not	tal depti	h _1318	4			feet
Drilling ceased May 7		_, 19_6	<u>C</u> Ini	ti a l pro	duction	Dry			
Crait to Abandon www.	July 14	_, 1980	Gr	avity A.	P. I		······································		
Abandonment approved	Jour 20	1, 19 <i>S</i> (∠ Ini	tial R.	P				
Geologic Formations Surface Lowest iss	ied.		Name	Prod	luctive E	iorizons Depiks		Conte	nie
<u> Nasatch Quart</u>									••••
WELL STATUS	_						·····		
YEAR JAN. FEB. M	AR. APR.	MAT	JUNE	JULY	Avg.	SEPT.	Oct.	Nov.	DEC.
1979									spud
1980		TD 13134		ABD .					
1986	P+A		***********						
REMARKS Geologic	Markers:	see we]]_fi]	e ۲۸	STORE	دے ت	¥ंट्रह		
Casing rec	ord: 13 3	/8" cc /4" cc 2" cc	0 480	'_w/63	5 sxs.				

STATE OF UTAH

SUBMIT IN DUPLICATE*

5

OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

								ah 194	
WELL CO	MPLETION	OR RECO	MPLET	ION I	REPORT	AND LO	3* 6. 1	IF INDIAN,	ALLOTTER OR TRIBE NA
1a. TYPE OF WE	LL: OII	GAS WELL		RY XX	Other		7. 1	UNIT AGREE	MENT NAME
b. TYPE OF COM		, WELL	"	41.	other		Be	eaver R	iver Unit
WELL XX	WORK DE	EP- PLUG BACK	DIFI RES		Other		S. 1	FARM OR LE	CASE NAME
2. NAME OF OPERA				· · ·			Fe	edera1	
	ERICAN INC	ORPORATED						WELL NO.	
3. ADDRESS OF OPI		a p			• • • • •	n. =00.5	2		· · · · · · · · · · · · · · · · · · ·
	Suite 51								POOL, OR WILDCAT
4. LOCATION OF WE At surface 22	-	000' FWL				ements) -	l	1dcat	M., OR BLOCK AND SUR
			5	WN	ω		1	OR AREA	a., or brock and boar
At top prod. in	terval reported be						Se	ec 28 T	20S R8W
At total depth	2336' FN	L 651' FW	L						
				RMIT NO.		DATE ISSUED	12.	COUNTY OR PARISH	13. STATE
				227-		11-16-7		llard	
15. DATE SPUDDED	16. DATE T.D. 1		TE COMPL.		• • • • • • • • • • • • • • • • • • • •	ELEVATIONS (D		, ETC.)*	19. ELEV. CASINGHEAD
12-31-79 20. TOTAL DEPTH, MD	5-7-8	O PE	A 7-31-		GL TIPLE COMPL.,	4612' KB		FARY TOOLS	4612'
•				HOW M			LED BY		
3184'MD 1314 24. PRODUCING INTE					AD AND TVD)*		<u>→ </u>	XX	25. WAS DIRECTIONA
	•			`	,				SURVEY MADE
									Yes
26. TYPE ELECTRIC	AND OTHER LOGS	RUN		-6				2	7. WAS WELL CORED
DIFL OLL.	BHC, BHC	ERAC, DENS	ILOG,	P X(SÌ	CALIPE	, pife)	TEMP	6	299-6305/8933
28.					of tall strings				
CASING SIZE	WEIGHT, LB.,				LE SIZE		ENTING RECOR	ID .	AMOUNT PULLE
13 3/8"	48.0	480		1		635 sx C1		- C1 1111	$\frac{1}{1}$
10 3/4"	40.0	2073			1/4'' 7/8''	735 sx RF 640 sx C1		C CI "H	$\frac{!'}{3250}$
5.1/4	<u>17# & 1</u>	<u>5.5#</u> 9238		<u> </u>	70	040 SX CI	. в		3230
29.		LINER RECORI)	<u> </u>		30.	TUBII	IG RECOR	D
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CE	EMENT*	SCREEN (ME) SIZE	DEPTH	SET (MD)	PACKER SET (MI
81. PERFORATION RE 8936 28 shot	corp (Interval, sees, w/A!! csa	ize and number) · Our /7129-	7520 91	l shot	82.	ACID, SHOT.	FRACTURE,	CEMENT 8	SQUEEZE, ETC.
8915 10 shot	:s w/4" csg	$\frac{1}{2} \frac{1}{2} \frac{1}$	7380 32	2 shot					OF MATERIAL USED
8367 17 shot			w/4" cs	sg gur	0344-0		12 bb1.		
8320 34 shot			·		8910-1 7724-7		1000 ga		
7778 108shot	s w/4" csg	gun			7348-7			L. acet	
33.*				PROI	UCTION	<u> </u>	Jou gal	L. ucc	
DATE FIRST PRODUCT	TION PROD	UCTION METHOD (Flowing, go	ze lift, pr	mping—size o	nd type of pum	p)	WELL ST	ATUS (Producing or
	<u> </u>							010100-31	"P + A
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N	FOR PERIOD	(GSL)		F. WA	TER—BBL.	GAS-OIL BATIO
PLOW. TUBING PRESS.	CASING PRESSU	RE CALCULATED 24-HOUR RA	OIL—I	PP	GAS1	ico.	WATER-BBL.	01	IL GRAVITY-API (CORR.)
34. DISPOSITION OF	AS (Sold, used for	fuel, vented, etc.)	<u>1-</u>	EC 291	<u> </u>	TES:	r WITNESSE	D BY
35. LIST OF ATTACH	MENTS		·						
					DIVISION	OE.			
36. I hereby certify	that Me/foregoi	ng and attached	nformation	is contin	lete stort certe	UF MANA protermine	d from all av	ailable reco	ords
K	116/1 5	all outtle							
SIGNED _	ruby &	evanu	TI7	rle _]	Field Sur	ervisor		DATE _	12-23-80

NSTRUCTIONS

or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on thems 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments about de listed on this form, see item 35.

Hear 18: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State and it there are not applicable State and are as a seek which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hear 18: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24, show the producing interval completed for separate production from more than one interval completion, so state in item 22, and in item 24 show the producing interval in the separate report (page) on this form, adequately identified, for each additional interval in the separate produced, showing the additional data pertinent to such interval.

Hear 29: "Mack's Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hear 33: Submit a separate completion report on this form for each interval to be separately produced.

					V		
	TOP	TRUB VART. DEPTH				D is	
38. GROLOGIC MARKERS		MEAS. DEPTH	2514	8364 8364 8038	9632 10600 12030 12050 12592	in TVD & MD	
	NAMB		Precambrian Mutual FM	Thrust Fault Notch Peak	Lamb Dol. Pierson Cove Whirlwind Dome Tatow Prosnect Mtn	Quartzite The difference insignificant	
37. SUMMARY OF POROUS ZONES: 8HOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THERBOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, PLOWING AND SHUT-IN PRESSUESS, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		Porous dolomite	Quartz	Dolomite - gy-1t gy-wh-dk gy S/calcareous w/abn stylolites, dolo-calcite-barite filled fractures, pyrite, some mottled & brecciated zones, trace of anhydrite		
	BOTTOM		8915 8936	6305	8954		
	TOP		8908 8923	6539	8933		
87. SUMMARY OF PORC SHOW ALL IMPOR DEPTH INTERVAL	FORMATION		Notch Peak	Core #1	Core #2 (Notch Peak)		